

Chit for Chat

Microsoft's new pay-for-chat policy has more to do with profits than protecting children.

4

Can we feed the world?

In another 50 years the world's population will hit 10 billion.
Will there be enough food for everyone?

3

New tuition strategy

Students and administrators are considering multi-year tuition agreements.

7

UNIVERSITY OF ALBERTA

folio

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Study recommends exercise for cancer patients

Cancer survivors benefit from active lifestyle

By Richard Cairney

The American Cancer Society has revised its recommendations for nutrition and physical activity for cancer survivors, and a University of Alberta researcher was part of a panel of experts that recommended the changes.

Dr. Kerry Courneya, a professor in the U of A Faculty of Physical Education and Recreation, is the only Canadian and one of four researchers specializing in exercise and cancer who contributed to the study, published recently in the journal CA: A Cancer Journal for Clinicians.

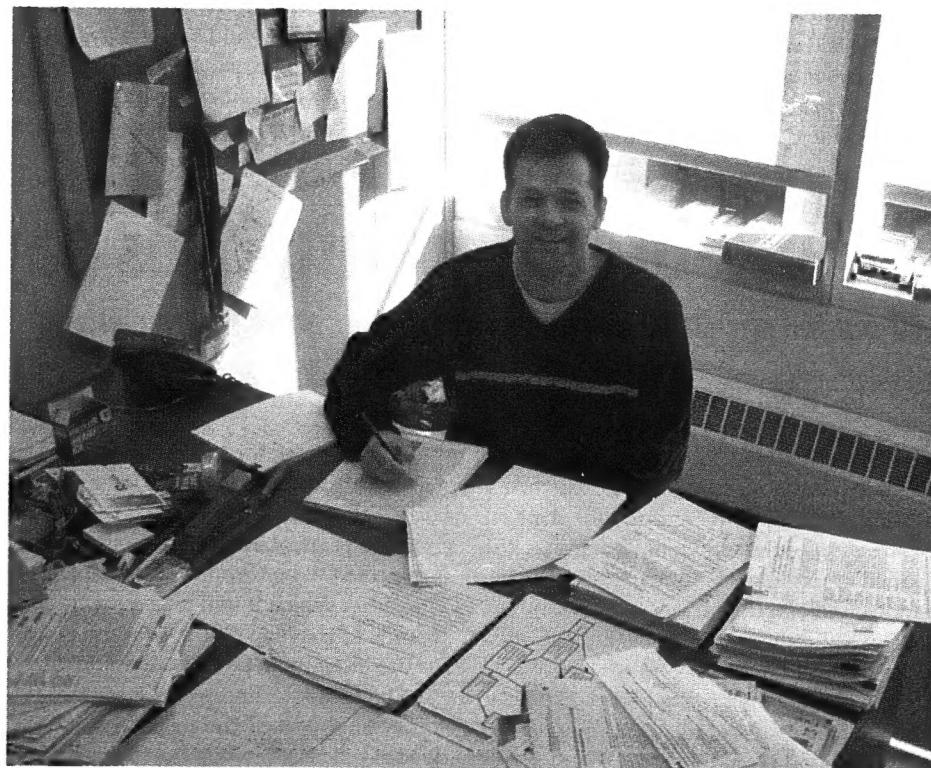
The study, authored by 19 experts in nutrition and fitness for cancer patients, answers basic questions posed by cancer patients about diet, supplements and exercise. The study marks the first time fitness guidelines have been recommended for cancer patients.

"When someone goes in for chemotherapy, the first thing on their mind is not exercise – it's going home and taking it easy," said Courneya. "Most oncologists do not recommend exercise to cancer patients either, and one purpose of these guidelines is to let oncologists and other health-care providers know that we should be recommending exercise to cancer survivors both during and after treatments."

Cancer patients who exercise, the article says, benefit from reduced pain and nausea, improved cardiovascular endurance and muscular strength, reduced pain and fatigue, and improved ability to work outside the home and perform day-to-day duties; they are less likely to suffer from depression and anxiety and benefit from social interaction in exercise.

These guidelines conclude that exercise has "probable" quality-of-life benefits for most cancer survivors during and after treatments and "may possibly reduce the risk of recurrence and extend survival in some cancer survivors."

Courneya said there isn't enough



Dr. Kerry Courneya is one of the authors of a paper that has led to new guidelines on physical activity and diet for cancer survivors.

evidence available yet to say exercise improves long-term survival rates of cancer survivors, but he believes that evidence will come in the near future.

"Exercise reduces the risk of primary cancer in the first place, so it may reduce the chances of the cancer coming back," he said. "Twenty or 30 years ago people who had cancer were going to die of cancer. Now, they're living longer. More and more, cancer survivors are dying of something other than cancer, like cardiovascular disease – and we all know that exercise can reduce the risk of cardiovascular disease."

The new guidelines are important because cancer patients often wonder what they can do to help themselves,

beyond reporting for medical treatments.

"They can go to the Internet and get all sorts of advice: good, bad and otherwise," Courneya said. "Complementary medicine is huge, whether people are taking St. John's Wort or shark cartilage or whatever. There is no proven benefits to that, and there could even be potential problems."

But the recommendations from the American Cancer Society, he adds, set a standard of care. "This is a very trusted source saying here are the guidelines supported by scientific evidence."

And there is no shortage of fit role models who help prove the point for cancer survivors: American cyclist Lance Armstrong overcame cancer and

Richard Cairney

"Twenty or 30 years ago people who had cancer were going to die of cancer. Now, they're living longer. More and more, cancer survivors are dying of something other than cancer, like cardiovascular disease and we all know that exercise can reduce the risk of cardiovascular disease."

– Dr. Kerry Courneya

recently won his fifth consecutive Tour de France. NHL stars Mario Lemieux and Saku Koivu have both beaten cancer and returned to professional sports.

"Cancer treatments can go on for many months, maybe years," said Courneya.

"And if you stop being physically active, the amount of de-conditioning and muscle wasting that goes on is phenomenal. You get into this cycle of not feeling well and remaining inactive that's hard to break out of."

"A lot of those guys, like Mario and Lance, say part of their motivation is to be a role model, that cancer is not a death sentence," he added. "You can still have a very active and vigorous life." ■

Theatre scholar's blueprint brought Shakespeare's Globe back to life

English professor Dr. John Orrell dead at 68

By Geoff McMaster

There is a moment in the life of Dr. John Orrell that is the stuff of legends – the kind of epiphany many scholars only dream about.

In the early 1980s, the English professor climbed the tower of Southwark Cathedral in London, England, with a drawing of the city's panorama etched at that very spot by one Wenceslas Hollaris in 1644. Orrell also had in hand a modern Ordnance Survey map, showing the 17th century buildings that still stand. He laid the survey map over the drawing and, much to his amazement, they lined up so accurately he concluded Hollaris could only have produced the drawing with the help of a perspective glass.

That meant the drawing's dimensions of the Globe Theatre, William Shakespeare's first playhouse, were correct. And although Hollaris' drawing showed a restored Globe after the original structure burned down in 1613, it was the best evidence for the dimensions of the theatre, which housed the first productions of the Bard's great dramatic works.

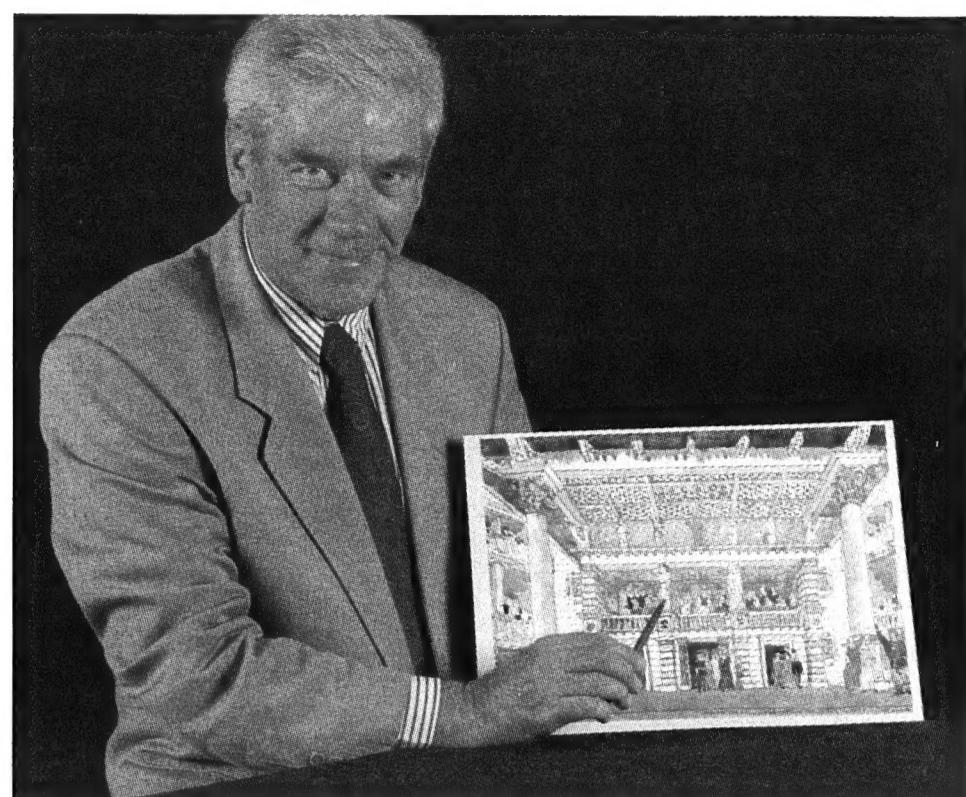
The result was a study that became, quite literally, ground-breaking. Orrell's *Quest for the Globe*, published in 1983, provided the blueprint for a new, historically accurate playhouse. The original foundation was eventually uncovered in 1989, reconstruction began in 1992 and in 1997 the Globe re-opened after almost 350 years with a production of *Henry V*, which refers to the structure itself as "this cockpit" and "this wooden O" in its prologue. Orrell acted as principal consultant every step of the way.

"Anyone who visits the reconstructed Globe Playhouse on the south bank of London today experiences the physical proportions of that place largely as researched and envisioned by John," says U of A colleague Dr. Rick Bowers.

Orrell, one of the university's most luminous figures of literary studies, died Sept. 16 at the age of 68. Born in Maidstone, Kent, he spent most of his working life in Canada, 35 years as professor of English at the University of Alberta.

He was, says long-time colleague Dr. Juliet McMaster, "the very model of a Renaissance man in the breadth of his talents and interests." The research that made him the "single major authority on Elizabethan and Jacobean theatre design" required "expertise in architecture, mathematics, drafting and carpentry, as well as a historical knowledge of those disciplines in early modern times," she says.

Andrew Gurr, who collaborated with Orrell on *Rebuilding Shakespeare's Globe* (1989), says that "while the Globe's design was evolving, (Orrell) could argue in their own language with the architect



Creative Services

Dr. John Orrell was an accomplished teacher and one of the driving forces behind the reconstruction of the Globe Theatre. He is shown in this 1994 photo with a drawing of the stage.

Theo Crosby, the master carpenter Peter McCurdy, as well as with archaeologists and engineers as readily as he argued the case for using Hollaris in the *Quest* book. Artist and playwright before he was a scholar, he had an intense love of practical things, gardens and their design as well as buildings, especially when the design was brought to life in the theatre."

Early in his career, Orrell also wrote a book on Edmonton play and opera houses, researched a dictionary of Western Canadian words and expressions, and produced radio and television documentaries on Western Canada. He also wrote poems, plays, short stories and screenplays.

He was known around the English Department as much for the slide rule he carried in his pocket as for his agile wit; he

once remarked after hearing a lecture by a renowned if over-rated visiting scholar, "What oft was thought, but frequently better expressed."

"Everything he did was so dignified and professional," said Bowers. "To me as a young academic trained in Elizabethan drama, coming to the U of A English department in 1987 meant coming to the department where John Orrell taught. When he retired, they moved me into his office. I still think of the place as John's office and I think of him often these days."

Orrell is survived by his wife Wendy, son David, daughter Catherine and grandson Benjamin. A memorial endowment fund will be established in his name and a service will be held Oct. 26, 7 p.m. at the Timms Centre for the Arts. ■

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Ground-breaking launches nanotech institute

\$40-million structure will be among the 'quietest' in the world

By Stephen Osadetz

It was a warm fall afternoon and federal Minister of Health Anne McLellan manoeuvred a remote-controlled backhoe that ceremonially broke ground for the construction of the National Research Council of Canada's National Institute for Nanotechnology (NINT).

The \$40-million building will be located in the heart of the University of Alberta campus and is projected to be one of the world's most technologically advanced research facilities.

"This institute will make Canada a world leader in nanotechnology...We're pushing the frontiers of innovation in how these collaborations are arranged," said McLellan, referring to the fact that NINT is funded by the federal government through the NRC, the province of Alberta, and the U of A.

The building is being touted as the 'quietest' research space in Canada – the precision of the experiments performed at NINT will require that it is insulated from vibrations of all sorts, from the rumble of traffic, acoustic noise, and electromagnetic interference. Also, the building's temperature and pressure will be strictly regulated.

All these controls are needed because of the extremely small scale of nanotechnology. As U of A President Dr. Rod Fraser puts it, a speck of dust hitting a nanodevice would be like "the moon crashing into

the Earth."

The price tag for the building will represent only one third of the \$120-million budget that is supporting NINT through its first five years of operation. Construction is expected to be completed by September 2005, after which it will take a few more months to move in all the equipment and for the institute to be fully operational.

The first four floors of the 16,000-square-metre research facility will be devoted to NINT, while the fifth and sixth floors will be set aside for the U of A Department of Mechanical Engineering, specifically for nanochemical and nanomechanical research.

Up to 120 NRC staff will work in the institute, as well as 45 guest researchers, including 20 researchers from the U of A on cross-appointments. About 275 graduate and post-doctoral researchers will also have training opportunities in the facility.

Together with NINT, the U of A is building three areas of nanotechnology specialization: soft, biomimetic nanomaterials; hard nanomaterials; and the integration of the two. There will be a strong focus at the institute on connecting its innovations to the 'real' world, on building productive connections with industry that will eventually make nano-scale devices common tools.

"What we're doing here with NINT will make the world sit up and notice in years ahead," said NRC President Dr. Arthur Carty. ■



Alberta Innovation and Science Minister Victor Doerksen and federal Health Minister Anne McLellan toyed around with remote-controlled earthmovers to launch construction of the National Institute for Nanotechnology.

The nitrogen dilemma

How do we feed the world without destroying the environment?

By Geoff McMaster

It gets nowhere near the same attention, but we are in the midst of an environmental crisis potentially more damaging than global warming, says Dr. Vaclav Smil, one of the country's leading agricultural scientists. Ironically it is also linked to what he calls "the most important technical invention of the twentieth century" – the use of inorganic nitrogen fertilizers.

Nitrogen, the most abundant of the Earth's gases, is fundamentally necessary for both crop production and human growth. Too much of it, however, can severely throw the biosphere off balance, which in the view of many has already begun.

According to Smil, the world's population would simply not stand at its current 6 billion people were it not for "human intervention in the nitrogen cycle." And with the population expected to reach 10 billion in another 50 years or so, the dependence on inorganic fertilizer to grow crops seems only bound to increase, perhaps exponentially. Not so far-fetched when you consider that about half of the inorganic nitrogen ever used on the planet has been dispersed in the last 15 years.

A recent study from Colorado University notes that using nitrogen as a nutrient is doing more harm as a pollutant than good in terms of crop yield. "The major global changes in the nitrogen cycle have occurred because humans now convert more nitrogen to usable forms (such as nitrates or ammonium) than all natural processes combined," say the authors of the study. "The overuse of nitrogen fertilizers can lead to a number of problems, including air and water pollution."

"Ecological feedbacks to excess nitrogen can inhibit crop growth, increase allergic pollen production and potentially affect the dynamics of several vector-borne diseases, including West Nile virus, malaria and cholera." Too much nitrogen in the biosphere can negatively affect humans in many other ways, the study goes on to say, from respiratory ailments to heart disease and several cancers.

With about a seventh of the world's people going hungry, more than 800 million, and about 90 per cent of projected population growth expected to occur in poorer countries, dumping fertilizer in ever-growing amounts would seem unavoidable if we are to feed the world's poor.

But as Smil pointed out in the first Bentley Lecture in Sustainability on campus last week, there is more than enough food on the planet to feed everyone without increasing production and destroying the environment in the process. In fact it would be possible to provide every person with a nutritionally adequate diet of about 350 kilos of cereal per year. So why is it so hard to accomplish?

Part of the problem, of course, is distribution. The world's poorest either don't have access to food or can't afford to buy

it. And farmers can't afford the expensive modern technologies to increase yields.

But another contributing factor to global "food scarcity" is the fact that much of the world's grain is fed to animals, and in energy terms that is woefully inefficient. "Our agriculture is not about feeding people, but about feeding animals," said Smil.

In fact as much as 70 - 80 per cent of everything planted in the ground is fed to livestock. It takes two kg of grain to produce one kg of poultry, four kg for the same amount of pork and about seven kg for one kg of beef. "Cows are very wasteful," Smil says, adding that their feeding efficiency hasn't improved over the past 100 years.

Our love affair with meat, especially in the western world, therefore reduces the overall amount of food available. Clearly our diets will have to change, both in terms of composition and daily caloric intake if we are to make the dream of sustainable agriculture a reality, says Dr. John Kennelly, chair of the Department of Agricultural Food and Nutritional Science. But it will take a profound shift in societal values, and a change in demand at the consumer level. We can't expect farmers, after all, to stop practicing the methods that keep them in business.

"We produce in Western Canada a lot of barley," said Kennelly. "If it wasn't fed to livestock and particularly for beef, those farmers producing that grain would be in a lot more trouble than they are now, because the prices for their grain would be lower."

Farming is also a business, and people make their living from it because people are prepared to buy the products they produce. Should we interfere in that system, and say, 'Thou shalt not feed certain grains

times to just two or three.'

Instead of increasing yields for North American crops, genetic engineering might also be fruitfully applied to resolving storage problems in tropical regions, says U of A dean of agriculture Ian Morrison, "where in some places between 60 and 80 per cent of crop is lost to insects or fungi." But not everyone is convinced biotechnology will be all it's cracked up to be, especially in poorer countries.

"The subsistence farmer today isn't principally constrained by technology, so any technological fix is likely to be inadequate," Peter Rosset, a former agricultural scientist now serving as co-director of the Institute for Food and Development Policy, says in a Web publication called AgBiotech.

"The world today produces more food per inhabitant than ever before... The real causes of hunger are poverty, inequality and lack of access."

Jules Pretty, director of the Centre for Environment and Society at the University of Essex, agrees. "Biotechnology is not currently a necessary precondition for feeding the world," he writes in the magazine of the Genetics Forum, 'SPLICE' "However, it is fair to say that improvements to farming will arise from genetic engineering if the research is public-funded and for the public good."

Biotechnology is therefore unlikely to benefit the poor in the short term. These technologies are expensive to develop, estimated at \$1 million per gene, and companies are expecting to recoup costs as well as make large profits on sales."

Making sure the world is fed as the population doubles over the next century will be, without doubt, a daunting chal-

"The world today produces more food per inhabitant than ever before... The real causes of hunger are poverty, inequality and lack of access."

— Peter Rosset

lenge. But as most experts agree, it will not be accomplished by focusing on profit-driven technologies that tend only to benefit wealthier countries while ignoring the destruction caused by fossil fuels and synthetic fertilizers.

"The world has the capacity to feed its population," stresses Morrison, "but there are huge distortions partly driven by the differences in lifestyle and economic situations of countries around the world. Partly developed economies have little appreciation of the needs of the less developed world." ■

>> quick facts <<

Highlights of Sustainable Agriculture (provided by Jules Pretty to 'SPLICE,' the magazine of the Genetics Forum, reprinted in the Norfolk Genetic Information Network):

- Some 223,000 farmers in southern Brazil, using green manures and cover crops of legumes (organic rather than inorganic fertilizers) and livestock integration, have doubled yields of maize and wheat.
- Some 45,000 farmers in Guatemala and Honduras have used regenerative technologies to triple maize yields and diversify their upland farms, which has led to local economic growth which has encouraged re-migration back from the cities.
- More than 300,000 farmers in southern and western India, farming in dryland conditions and now using a range of water and soil management technologies, have tripled sorghum and millet yields.
- Some 200,000 farmers across Kenya have benefitted from various government and non-government soil and water conservation and sustainable agriculture programs, more than doubling maize yields.
- About 100,000 small coffee farmers in Mexico have adopted fully organic production methods and yet increased yields by half.
- About one million wetland rice farmers in Bangladesh, China, India, Indonesia, Malaysia, Philippines, Sri Lanka, Thailand and Vietnam have shifted to sustainable agriculture, where group-based, farmer field schools have enabled farmers to learn about alternatives to pesticides while still increasing yields by about 10 per cent.

to live-stock? Is that where we want to go? While people still want to eat beef, you can't blame the farmer or business person for meeting that demand."

Many argue that the solution to the world's food problems lies in biotechnology, or genetically engineering crops for higher yield, virus-resistance, drought tolerance and nutrient enhancement. Ideally genetically altering crops may even allow farmers to bypass pesticides and perhaps even inorganic fertilizers.

One of the most encouraging examples of such technology is called Golden Rice, which produces beta carotene that converts to vitamin A in the body. In another case in China, the gene for a naturally occurring bacteria called *Bacillus thuringiensis* has been put directly into corn and cotton crops, reducing annual pesticide spray from 12 - 13



Charging for chat: Greed or social responsibility?

Microsoft manages to turn a profit while 'protecting children'

By Harvey Quamen

On October 14, Microsoft's new chat room policy goes into effect. Users will be required to register and to pay for access to MSN's online chat rooms. Microsoft's intentions seem honourable: to keep out the spammers and the pedophiles. But the act is nothing more than blatant money-grubbing greed glossed over with the barest patina of responsible social policy.

The problem? Pedophiles and spammers. Microsoft's solution? Charge for access to chat rooms, a technology invented in the first heady days of Unix back in the 1960s and '70s, and subsequently given away for virtually nothing, royalty free, ever since. It's good capitalism, if you can get it: take something that someone else invented and gave away, then charge people to use it.

But there's the hitch: charging people for access is no impediment to either pedophiles or spammers, the very people that Microsoft is ostensibly targeting. Pay services simply eliminate children – the most vulnerable and impressionable group of Internet users. Microsoft's solution is to profit from the pedophiles while banishing the children. Clever? I'm not sure.

Now I'm all for gouging the pedophiles and spammers. Please do. I often wonder if we can invent a new ring in Dante's Inferno just for them.

But I'm uneasy about corporatizing the Internet even further. Microsoft's approach now is a near-verbatim replay of the strategy that whisked the 1996

Telecommunications Act through the U.S. Congress. By making people pay for porn, the U.S. government argued, children's access to the naughty stuff could be restricted while at the same time transforming more of the Internet into a marketplace.

That move must infuriate the Internet's pioneers even more than it does me. Tim Berners-Lee and CERN invented the World Wide Web in the early 1990s and chose to give it all away for free. Free scripting languages like Perl, Python and Ruby are widely available to web developers at no cost. SQL databases can be had in a variety of flavours. The Open Source movement provides free software for a variety of needs from business to science to education. I wonder almost daily whether Ray Tomlinson regrets having invented e-mail back in 1971 or whether Eric Allman wants to sabotage his own software, sendmail, the behind-the-scenes program that routes e-mail from computer to computer. Every piece of spam they receive must carry with it a small twinge of guilt. Added up, that's a lot of guilt.

The desire to cash in on all the freebies that people like Berners-Lee and Allman have given us should not surprise us, but that's a sad commentary on the capitalist nature of our culture. British Telecom recently claimed, for example, that it long ago patented the notion of clicking on hyperlinks but then forgot about it. It tried to sue for royalties, but to no avail.

Despite corporations like Microsoft and British Telecom, the Web still runs because of – and will continue to develop along the recommendations of – non-profit organizations like the World Wide Web Consortium (W3C) and the European Computer Manufacturers' Association (ECMA; since 1994 called Ecma International).

Consequently, I question whether increasing capitalism's grip on the Internet is really the best way to improve the safety of the most vulnerable among us. Microsoft's solution is cunningly crafted: it boosts revenue even as it projects social responsibility. But the tacit, and much more damaging implication is the working definition of "child" Microsoft deploys: children are those who are not yet consumers.

Microsoft's strategy of cleaving Internet users into consumers and non-consumers is like taking a broadsword into brain surgery. Theirs is not a sophisticated enough tool to help solve the problems at hand. Still, there are upsides to Microsoft's actions. The decision to charge for MSN services means users will now leave a paper trail. Evil-doers (to use an infelicitous Bush-ism) can no longer hide and must eventually be held accountable for their actions. And Microsoft is also now working with Toronto Police Services to develop technologies that will seek out child porn on users' computers. Those are laudable actions. But those technologies target the crime only after the fact (that is, after Microsoft has already billed the

culprits for online access), and so these solutions cannot protect children directly. Moreover, they don't allow either parents or groups like the W3C to take a more active role in shaping the Web and the Internet.

I applaud much more heartily the approach of people like Drew Ann Wake, whose Vancouver-based software company LiveWires (www.livewwires.com) is marketing a computer game called Missing that teaches children how to recognize online predators and how to respond appropriately. Wake's goal is capitalist, too, but her software teaches children to be active agents in their environments and it affirms education as a transformative force in our society. Rather than defining children in terms of their inability, as Microsoft has done, Wake has defined children in terms of their abilities and their potential.

So stay tuned. In a year or two, Microsoft will be richer yet while the rest of us will probably still be wondering how to prevent spam and pedophilia on the Internet. In the meantime, though, I think I'll buy some software from LiveWires Design. ■

[*Harvey Quamen is an Assistant Professor in the University of Alberta Department of English, where he teaches courses on science and literature as well as cyberspace. He abandoned an earlier career as a computer programmer in order to join the jet-setting, high-profile, lucrative world of academia.]*

folio letters to the editor

Cuts are conspicuous in times of growth

Editor, Folio:

Regarding the article *Campus construction running red hot* (Folio, Sept. 26, 2003), it is a bit disappointing that all of the planned and current construction projects are restricted to fields in the sciences (broadly speaking).

During a period when the Faculty of Arts has to undergo a hiring freeze and other budgetary restrictions, it would be nice if even a fraction of the \$360 million being spent on construction could be re-invested in human beings, rather than bricks and mortar. We are becoming a two-tiered university in terms of how the Arts and Sciences are treated.

This is not a sound direction in which to be headed. When the two fields are not equally respected and when they do not work in conjunction with one another, an unhealthy disconnect forms, making those in the Arts resentful of their counterparts in the Sciences; and those in the Sciences ignorant of how a strong liberal arts education can guide scientific progress.

If all of these projects are essential in transforming the U of A into a "world class institution" – you could start with the \$8.25-million Windsor Car Park Extension. It's ridiculous that we need all of this parking at the U of A when staff and students have access to adequate transit services

and excellent bike access from all over the city.

The university no doubt profits from parking fees, but wouldn't it be a better investment to work with government to attain Kyoto credits through an innovative green transportation incentive program (like the student bus pass or tuition credits for cycling or walking to campus)?

The U of A has to be more innovative in terms of how it plans for the future. We are losing much of what has made us an excellent institution in our single-minded desire to attract big research dollars.

Matt Smith
MA Student
History and Classics

Campus booming at expense of Arts?

Editor, Folio:

In response to Richard Cairney's article on the large amounts of construction on the University of Alberta campus (*Campus construction running red hot*, Folio, Sept. 26, 2003), I have some joy and a lot of disappointment.

The positives first, as a student at this institution I am proud of the world-class facilities that we are building to promote health and wellness, and technological innovation – but where does that leave the students on the east end of campus? I am referring specifically to those in the liberal arts, the students expanding their minds and learning skills that do not limit them to one specific profession.

I am a student of Political Science learning about the manifestations of globalization and governance affecting our world today; I am a person who plans to be involved in decision-making for our country in the international political economy; I am a woman who believes that diversity of education benefits all of society.

Where would we as a society be today were it not for politicians, artists, writers, or philosophers? Engineers, doctors, business people and lawyers are equally as vital to Canada as those who pursue the liberal arts, even if you cannot put a price tag on that value. Our society needs to fund the progressive post-secondary

education of all students at the University of Alberta – we all need to have access to computer labs and interactive learning classrooms.

I would like to see the government of Alberta recognize the value and prospects of students pursuing an education in the Arts by committing funds to enhance my own, and my peers' learning environment at the University of Alberta. I would like to see the number of professors teaching in Arts departments increase relative to the increase in students we are accepting. I would like to see the valuable departmental libraries that have been closed due to yet another round of fiscal belt tightening, re-open as one of the few special resources that such departments possess. I would like to see some respect for the work that Arts students put in and for the employable job skills and abilities that we possess.

The University of Alberta and the government of Alberta should be proud to fund all of the exceptional students working towards their futures at this institution. I challenge these governments to commit funds to a diverse and educated society that believes in the contributions of both sciences and arts for the prosperity of our province and country.

Adrienne Betts
Arts IV - Political Science

folio letters to the editor

Folio welcomes letters to the editor. Send your thoughts and opinions via e-mail to richard.cairney@ualberta.ca, fax at 492-2997, or by mail to Folio, Office of Public Affairs, 6th Floor General Services Building, Edmonton, Alberta T6G 2H1. Letters may be edited for grammar, style, accuracy and length.

Killam Award story provokes response from Hruedy

Editor, Folio:

I once experienced a media fiasco in giving a live 6:00 AM interview on national TV after the release of the Walkerton Inquiry report. I concluded then that, despite the countless misdeeds that caused the Walkerton tragedy, I was thankful the media were not responsible for the safety of our drinking water. When *Folio* interviewed me about the Killam award, I did not expect another fiasco.

The September 26 article came from a lengthy interview on July 24. I was assured I could review the story for accuracy. A draft was e-mailed on September 19—ironically, while I was on my way to Walkerton. I did not see that e-mail then, and no phone contact was pursued. Publication of this feature story about a one-year award was not urgent. Yet it was printed without my review, using a nine-year-old file photo.

When I raised concerns about the story's misinterpretations, *Folio* assured me I could respond in the next issue. When they received my draft, they sent a line-by-

line rebuttal. Their responses do not alter my concerns about accuracy. This frustrating exchange could have been avoided if I had reviewed the story. Yet *Folio* steadfastly insists their policy permits such reviews only rarely. How is our University served by such a policy? Is our motto not *Quaecumque vera?*

Folio misinterpreted several points from the interview.

- Contrary to *Folio*, *Campylobacter* played effectively no part in overwhelming water treatment systems in the outbreaks mentioned.
- Giardia is a protozoan pathogen, not a bacterium.
- Stating that "only a tenth as many people became ill" in Orangeville as in Walkerton is not valid because *Folio* used incompatible measures of disease.
- There have been thousands of Superfund sites, but few are "dumps turned subdivisions."
- My involvement in the Suncor prosecution in 1983 had no bearing on my

appointment to the Environmental Appeal Board in 1996.

• The statement "as though charts and graphs on a printed page could magically ward off pathogens" is *Folio*'s clumsy paraphrase of my explanation that Walkerton was not caused by lax water quality objectives.

• Our forthcoming book is not directed at "general ignorance about the real state of Canada's environmental and public health problems" nor is it primarily about Walkerton. That tragedy is the inspiration, but the book documents the causes of over 50 waterborne disease outbreaks from 14 countries and is being published by the International Water Association in London.

• I believe the story could be misread to suggest that I was pressured by the Walkerton Inquiry to promise "that a tragedy would never recur." I certainly was not.

Of greatest concern to me is that I stressed to the reporter that my career has been dedicated to seeking balanced,

informed environmental health decisions. We even discussed how the story photo could depict balance. How this discussion became the headline "One thing is certain: you will die. Dr. Steve Hruedy wants to make sure that doesn't happen prematurely" is beyond my comprehension. If *Folio* felt I was "bewildered" by Walkerton, their choice of headline surely has me "befuddled."

Finally, although *Folio* did not misquote me, I did not make the self-serving claims offered by *Folio* of "defending Canadians and the environment," facing a "monumental task...that...can never see true prevention perfectly realized," writing regulatory guidelines ("No matter how good his guidelines..."), achieving "resounding successes" or taking on "a campaign that will never end."

I appreciate this opportunity to set the record straight.

Dr. Steve Hruedy
Professor of Environmental Health Sciences

Taking steps toward fitness

On The Move program wants you to start walking

By Richard Cairney

There is a saying that every journey begins with a single step. Now, a new University of Alberta program wants to help count just how many steps you take on your way to fitness.

The U of A On The Move program was launched Oct. 4, when more than 100 participants clipped on pedometers—devices designed to count your steps—and began pounding the pavement.

The program was formed out of the Faculty of Agriculture, Forestry and Home Economics' annual Empey Lecture. This year's lecture was presented by Dr. James Hill, credited with developing the successful America on the Move program, and Dr. Diane Finegood, scientific director of the Institute of Nutrition, Metabolism and Diabetes with the Canadian Institutes of Health Research.

The two addressed their research in the areas of diabetes and obesity and the links between physical activity, healthy eating and well-being.

The campus On The Move program began just a week after the U of A Board of Governors asked university administrators to find ways to implement recommendations from the report of the university Senate's task force on health and wellness.

It's all part of a campus-wide movement to promote active living, said Dr. Rhonda Bell, who teaches human nutrition in the department of agricultural, food and nutritional science. Bell has used pedometers in research that resulted in the First Step Program for people with Type 2 Diabetes.

"When people use the pedometers they can become active in a way that is individually paced and targets daily activity," she said. "It gets them active in a reasonable way—it isn't the old weekend warrior syndrome where someone says 'gee, I'll just go out and run a marathon this weekend' then they get hurt and decide 'well, forget it—I'm not doing this anymore.'"

The campus community can purchase the U of A pedometers for \$25 from the office of Health Promotion and Worklife Services (call 492-2249). The devices come with instructions and maps of walking routes in the campus vicinity. The university's On The Move website (<http://www.onthemove.ualberta.ca/>) also includes maps

of indoor walking routes on campus.

The website offers resources to find target heart rate zones and to determine body composition. It also allows On The Move participants to register and maintain an online log of their walking activity.

Bell said that the program can assist in research programs and can be monitored to measure improvements in the health of participants.

"There are different groups on campus in the midst of planning research studies that people can get involved in and I suspect that we will get into intervention studies," she said, adding that planning for this year's Empey lecture was "special" in that it

involved different disciplines which are all concerned with wellness.

"One way research might link with this is, say 100 people are keeping track of their steps. We might ask people to sign informed consent forms so that we will look at their steps per day. This is where we can tie into a larger research platform like the one Diane Finegood described, so we can really document what the findings are here."

If statistics were to show decreases in activity during the winter, she added, then program co-ordinators might try to further promote hours of operation for fitness facilities, such as the Butterdome, and promote the indoor walking routes.

Dr. Wendy Rodgers, a professor and associate dean of research with the Faculty of Physical Education and Recreation, says pedometers help motivate people to become more active.

"It sounds trite but people like gadgets," she said. "Pedometers help people quantify their lifestyle and physical activity, which is difficult because it (walking) is kind of pervasive during the day—you can't remember where you've gone in a day and people like to know whether they have done what they are supposed to."

The research Rodgers and her colleagues are conducting has so far shown that people who use pedometers can rack up to about 8,000 steps per day. In order to arrive at a standard of 10,000 steps per day that indicates an activity level equivalent to three weekly visits to a gym, research subjects need to add a walk specifically aimed at raising daily step counts.

The idea of using a pedometer, Rodgers



The University of Alberta On The Move program began Oct. 4 when participants (right) pounded the pavement. Pedometers (above) are available through Health Promotion and Worklife Services (492-2249). The On The Move website (www.onthemove.ualberta.ca/) includes maps of indoor walking routes on campus.

says, is that users check their total steps at various times during the day and if they haven't reached their goal by the end of the day, they can take a walk to reach that target.

"People who have had a more active day don't feel as exhausted at the end of the day," Rodgers said. "Those of us in exercise psychology try to convince people that taking an exercise break is refreshing and gives them more energy. Yet people tend not to believe that until they participate in something like this. They feel better on days when they get more activity."

The pedometer helps convince wearers that, even if they're feeling worn out, they haven't met daily activity goals. Simply relying on how tired you feel isn't as accurate.

"If you wear a pedometer for a day you might have one particularly active day and think you're OK," she said. "But on the other hand because of the kind of work we do here on campus you might feel you

worked your butt off all day when in fact you worked your fingers and eyeballs yet sat still in front of a computer all day.

"A lot of meetings and a lot of computer work is sedentary and by looking at the pedometer, you realize the difference."

Rodgers also sees the value of seeking informed consent from participants to access a database of how effective the program is. She's confident that On The Move could improve workplace productivity as well.

"The idea is to get more people more active. If they all started to wear pedometers and all started to measure steps and we collected health or fitness information or productivity-related information . . . I think we'd see that quality of work and productivity will increase."

And getting people out of their offices and out from under fluorescent lights, especially in the winter, you'd see a net gain in employee satisfaction and appreciation of the workplace." ■

Energy Conservation Program savings: \$140 million and counting

Biological Sciences project will save university \$550,000 per year

By Richard Cairney

A conservation program that has saved the University of Alberta an estimated \$140-million over 30 years is about to change every light bulb in the Biological Sciences Building.

The U of A's Energy Conservation Program has received approval from the provincial government to borrow \$3.5-million to install energy efficient lights and light fixtures throughout the building. The upgrade will save the university approximately \$550,000 per year.

The loan will be paid off through resulting energy saving, says director of facilities management Len Sereda. And when the debt is repaid, in 10 years, the U of A will realize savings on its annual energy bill, projected to reach \$34 million this year.

As high as that figure is, if it weren't for the Energy Management Program, the cost of utilities would be \$13 million higher — clocking in at \$47 million.

"The point of it is that it is money in the university's pockets," said Sereda, who adds that, while there is a loan to repay, other immediate benefits arise.

"There are many other benefits we are achieving as we go along: it's infrastructure renewal — we're putting in a lighting system with a 25-year lifespan, it reduces greenhouse gas emissions and it contributes to sustainability," he said.

"Essentially, every light fixture is going to be replaced," said Geoff Hurly, associate director of operations and energy management, who added that the change will result in about a 50-per-cent drop in energy use.

Dean of Science Gregory Taylor says he has seen first-hand the effect of the conservation program. In 1998 Taylor became intrigued by a similar program Sereda's

office was taking on in the Cameron Library. Library patrons were informed of the energy saving move, which improved lighting levels while cutting energy use dramatically. Taylor wondered if the same could be done at the biotron rooms in the Biological Sciences Building, where professors and students grow and study plants.

"I thought 'if they can get energy savings in Cameron, imagine what they can do in our plant-growth rooms,'" Taylor recalled.

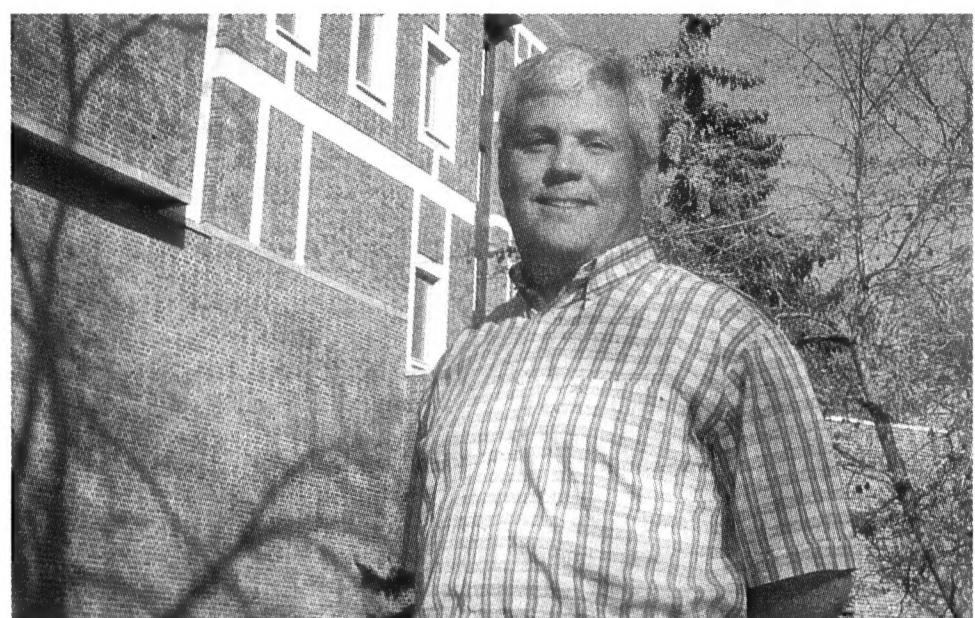
At the same time, the Faculty of Science had applied for funding from the Canada Foundation for Innovation and the provincial government to upgrade the cooling system in the rooms, because the intense lights threw off so much heat.

But once Sereda's group renovated the rooms, the cooling problem was resolved by a "relatively modest" renovation of the existing cooling system. The CFI funds, with permission from the agency, addressed the temperature issue by helping to finance the lighting project.

"It was win-win for everyone. The rooms were cooler, the plant biologists got new lighting systems that provided them with increased lighting intensity and more even light distribution at lower energy costs to the university — so everybody is happy," Taylor said.

Both the Cameron and growth room projects won North American lighting awards for energy savings and lighting design.

The Biological Sciences project represents the first in a seven-year plan the Energy Management Program hopes to institute. The program this year will also include the installation of new variable frequency drives in air conditioning systems. The new units will allow building opera-



Dean of Science Dr. Greg Taylor has high praise for the U of A's Energy Conservation Program. Lighting in the Biological Sciences Building will undergo a complete update early next year.

tors to reduce the speed of air fans, saving energy consumption while maintaining a comfortable temperature indoors.

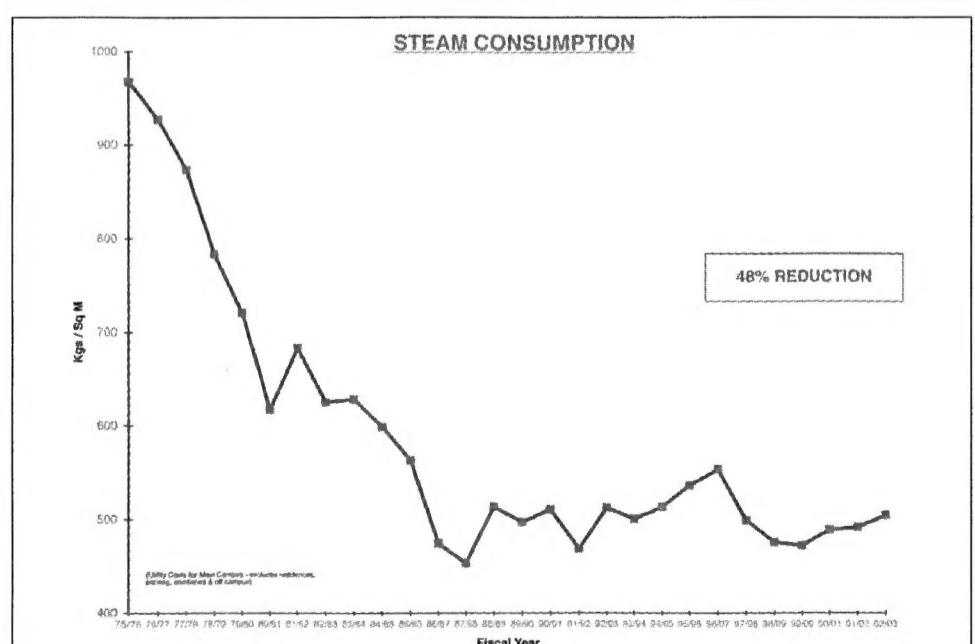
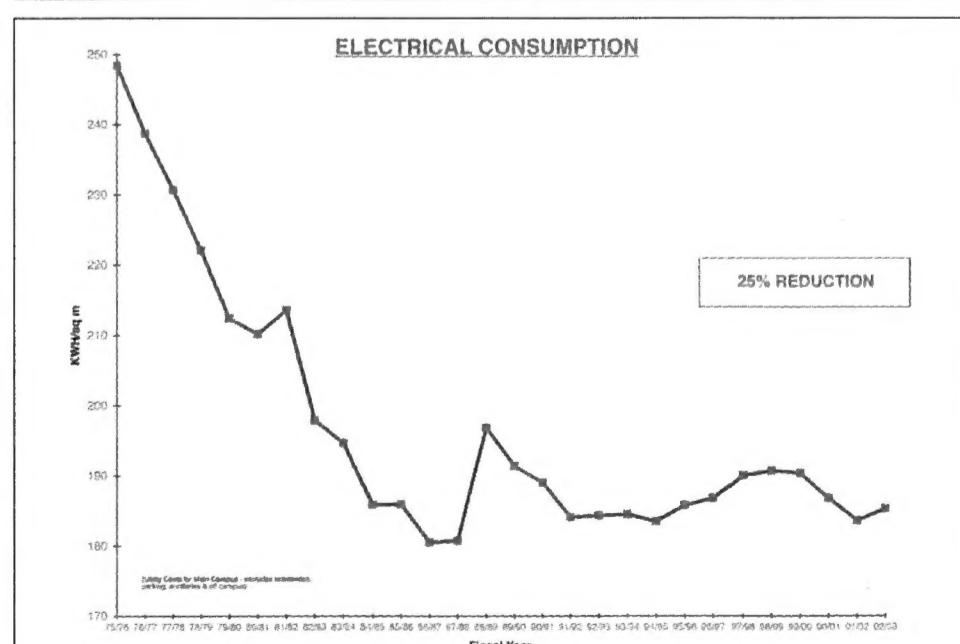
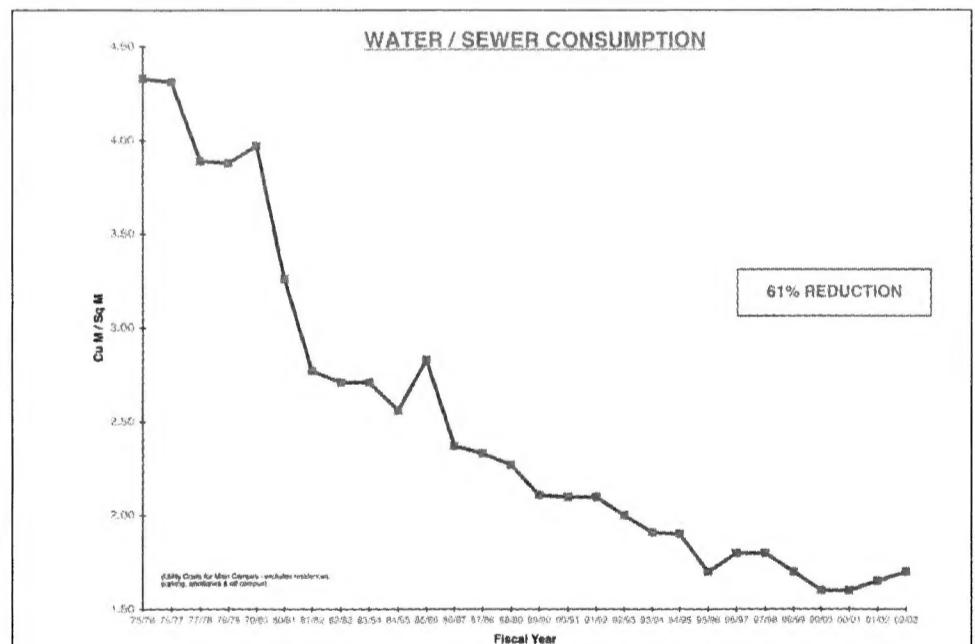
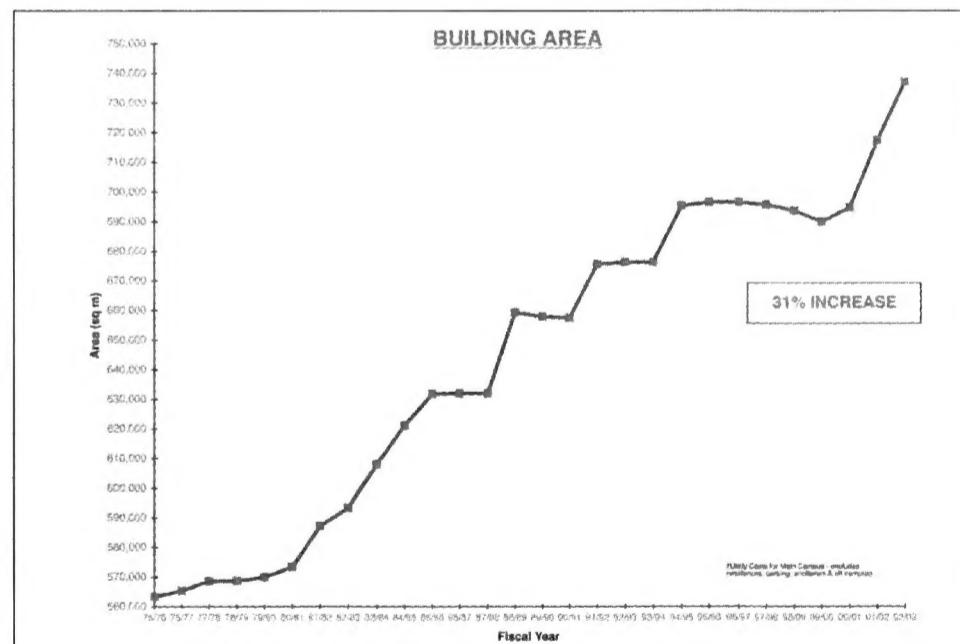
The Biological Sciences project, which is slated to begin in January, involves the replacement of 24,000 fluorescent light tubes with 9,000 high-efficiency tubes, and reducing the number of ballasts in the fixtures from 12,000 to 4,200.

Overall, the conservation program boasts some impressive figures which resulted in recognition in the Alberta Legislature in April as "one of the province's most successful energy savings initiatives." Since it began operating in 1975/76, building area at the university has grown by 31 per cent. At the same time, electrical consumption has dropped by 25 per cent; steam consumption has gone

down by 48 per cent, water consumption has decreased 61 per cent and utility rates for electricity, steam, water and sewage have increased by about 700 per cent, 1,300 per cent and 750 per cent respectively.

Over the same period, cumulative stack emissions into the atmosphere have been reduced by more than 1.7 million tonnes of CO₂, 2,100 tonnes of NO_x, and 1,600 tonnes of SO₂.

Sereda's office has also recently launched a Lights Off awareness campaign aimed at convincing faculty and staff to turn off lights and computers when they aren't needed. The move could save as much as \$400,000 in utility costs each year. The office is also distributing pamphlets about energy conservation ahead of Energy Awareness week, beginning Oct. 19. ■



Tracking progress: The charts above show the U of A Energy Conservation Program's successes since 1975/76. While overall building area has increased, energy consumption has declined sharply.

Administrators try new tuition strategy

Students asked to consider multi-year tuition agreement

By Ryan Smith

Nothing else has worked, maybe this will. That's the message student leaders heard this week from University of Alberta Provost and Vice-President (Academic) Dr. Carl Amrhein and U of A Vice-President (Finance and Administration) Phyllis Clark.

Amrhein and Clark met with the Graduate Students' Association (GSA) and the U of A Students' Union (SU) this week to propose that both organizations agree to accept the maximum tuition increases allowable under current provincial legislation for the next two years. In exchange, the administration has offered to give students access to the U of A's Executive Planning Committee for a discussion on the budget and a commitment to re-open the multi-year deal if the U of A receives more core funding from the provincial government than expected. Other concessions to students may be negotiated.

According to current regulations, the tuition increases would amount to an average annual increase of about 7.2 per cent.

Administrators expect the provincial government to provide a two-per-cent increase in base funding over the amount the U of A received last year. Amrhein said if the university receives more than this, the top priority will be to use some of the budget increase to roll back the proposed tuition increase.

"I think in the past, any increases (to budget funding) have been dealt with in an ad-hoc way in the EPC," said SU President Mat Brechtel. "We want to make sure students have a voice in how to deal with any increases we may get so that this doesn't happen in the future."

The GSA council decided to empower Lee Skallerup, GSA president, to negotiate the details of the deal with administrators. Once the details are known, the GSA will vote on the administrators' proposal. The SU will vote on the issue at its next council meeting, October 21.

"In the past, we've seen that the students fight tuition increases, but the administration looks at the budget realities and proposes tuition increases, and then the board looks at the budget realities and approves the increases in spite of student protests," Skallerup said.

"I feel very positive about this process the administration is proposing. The administrators have proved very willing to listen to and address our concerns. I think we've built a lot of good will and that we can take a strong message together to the



Ryan Smith

U of A Provost and Vice-President (Academic) Dr. Carl Amrhein says a multi-year tuition agreement helps the U of A speak with a united voice in lobbying the government for more funds.

provincial government," she added.

"Our main concern is accessibility, and I don't think the solution to what we want rests in fighting the (U of A) Board of Governors over tuition," Brechtel said. "I think it's important for the students and administration to lobby the government together, but the SU has got to protect the interests of the students. If the administration can assure us that the best interests of the students are protected, then we can put our full efforts into working with them and finding a solution to the real problem, which is increasing funds from the provincial government for our operating budget."

In spite of annual student protests, tuition has risen every year at the U of A for the past 23 years. Tuition costs \$4,310 for a full-time U of A arts undergraduate student this year, up from \$895 in 1980.

However, in a 15-minute presentation at the Oct. 7 SU council meeting, Amrhein and Clark defended the proposed multi-

year tuition increase by outlining the U of A's current budget pressures, which include a \$1-million deficit forecast for next year. They also described the trend of decreased government funding as a percentage of the U of A's core budget over the past two decades.

"Our budget numbers show us we have to go for the highest allowable tuition increases, otherwise our budget sinks or we have to make more cuts," Amrhein told students.

"Our goal is to keep tuition as low as it can be and still maintain the high quality that this institution has come to be known for. And we want to ensure you that we will continue to work toward this goal with you whether you agree to this proposal or not."

After the presentation the two vice-presidents fielded questions for more than an hour on issues ranging from scholarships to international tuition and budget priorities. Steve Smith, an SU representa-

tive from the U of A School of Business, asked why the administration and the students couldn't work together to lobby the government while at the same time debate the tuition issue internally.

"If we can go to the government and say, 'we've put in as much as we can, now it's your turn,' I think that's a powerful message," Amrhein told the SU council.

"I'm not promising that (agreeing to tuition increases) will lead to more provincial funding, but I think having a single, clear voice when we approach government is our best shot. All I can offer as evidence is that what we've done over the past 23 years has not worked."

Amrhein added that he is also seeking the support of the U of A academic and non-academic associations to achieve a "united front" when appealing to the government for more funds.

Alberta Minister of Learning Dr. Lyle Oberg was unavailable for comment at Folio's press deadline. ■

Computer security gets a boost

New office oversees information security

By Richard Cairney

When a series of computer viruses and worms wreaked havoc on computers and computer networks around the world this summer, the University of Alberta's Computing and Network Services (CNS) found itself in an unusual position: in order to protect the entire U of A network from failure, it had to "cut off" smaller on-campus networks it considered vulnerable.

With 27,000 registered computers on campus, CNS needs to take security of information seriously. And a new office has been established, Office of Information Systems Security (OISS), to maintain the system's integrity, protecting the work of students, professors, researchers and staff, along with university administrative data and information.

"The main thing for us is convincing the community that if they take the measures we advise them to, it will protect their information and their environment and help them carry out their job," said

Keith Switzer, CNS manager of service operations.

"Sometimes it's necessary to turn someone (a department) off, but that's a last resort," added Bob Beck, OISS senior technical team leader. "It's done on a case-by-case basis. We isolate big problems and try to contain them to as small an area as possible."

Beck said that during the summer, several departments were cut off from the rest of campus until virus or vulnerability problems were corrected.

CNS director Marika Bourque said that some members of faculty and staff don't always give sufficient consideration to the fact that they could lose all of their work in a worst-case scenario.

"There are many cases where people don't realize how necessary security is," she said of security standards. "Even up to a little while ago, before these worms and viruses, people were fairly lax about security."

At CNS, security counts – information on campus is sensitive. Payroll and other personnel data are stored in university computers, as are registration and grade information for students. And the potential for something to go wrong is always present.

"Generally, what we've been seeing a lot of lately is worm and virus activity," Beck said, adding that the threat of being hacked is always there.

"You are always being probed for vulnerabilities."

So the university needs to be vigilant in protecting information, Bourque says. She understands that for technicians and network administrators it's a demanding job. Between computer crashes and seemingly simple questions they regularly handle, their job has become more complicated with the onslaught of new viruses. And it gets worse when you add the need to continually perform updates and apply appropriate patches to computers. The

OISS plans to offer alerts for system administrators and other users and develop procedures to simplify security procedures.

"Sometimes there are misunderstandings," Bourque said. "These people have already got a million things to do, so it's tempting to put off a preventive measure for just one day."

"But people find out quickly that their entire network is down."

Bourque points out that security is everyone's job.

She'd like to see the entire campus community pull together on information systems security. "I don't think it's fair to put it all onto the LAN administrators. It is everyone's responsibility to know who to go to in their department for computer help or to call our help desk number when they've got a problem or question."

The CNS help desk number is 492-9400, its website is www.ualberta.ca/cns/ security . ■

Library shows off the best of American poetry

Black Sparrow Press collection gets up close and personal with artists

By Stephen Osadetz

For three decades, the University of Alberta collection of books published by Black Sparrow Press sat in boxes, neglected and unstudied, almost forgotten, in a basement room of the Bruce Peel Special Collections Library in the Rutherford Library. The collection includes letters, working copies, original artwork, and first editions of many of the most important poets of the last half-century in the United States.

Had it not been for the collective work of U of A English professor Dr. Michael O'Driscoll, his students and the library's staff, the archive might have sat uncatalogued and unused for years to come. But after about a year's worth of work, the collection, which features poets such as Charles Bukowski, John Ashbery, Denise Levertov and Robert Duncan, is catalogued and on display for all to see.

O'Driscoll, who headed the eight-month project to organize and index the archive, stumbled onto the collection in 1997, when he came to the U of A to interview for a position in the English department. As with all applicants, he was given a tour of Special Collections. Knowing his interest in contemporary poetry, John Charles, a librarian, pulled out the Black Sparrow collection, which had only the barest of catalogues, written by John Martin, the press's publisher.

"I was so fascinated by the archive that I came to Special Collections to work

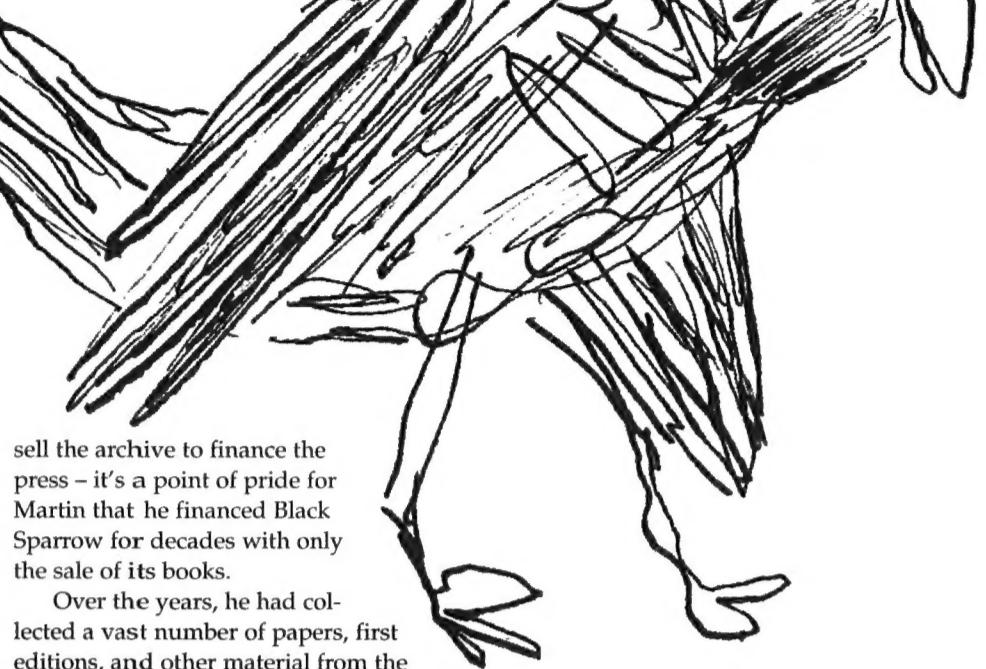
on it for a couple of days beyond the interview. I told myself that if I came here, I would some day get around to working on the Black Sparrow collection," O'Driscoll said.

It took him five years to start the massive task, but when he finally turned to the Black Sparrow archive, he set all other work aside to focus on the project of restoring part of the material history of the press.

Black Sparrow Press started in Los Angeles in 1966 with a relationship between Martin and Bukowski, one of the most notorious characters in recent literary history. According to the story O'Driscoll tells in his introduction to the archive's bibliography, Martin learned about Bukowski through a literary magazine, contacted the poet and offered him \$100 a week to quit his job as a postman and write full time for his new press. Bukowski agreed, and the press started rolling off its first broadsheets of Bukowski's work, copies of which are held in the U of A's collection.

The collection also includes correspondence between Bukowski and Martin, in which Bukowski colourfully comments on his employer, his hours of work and the election of Richard Nixon as president.

"The Black Sparrow Press," O'Driscoll says, "is a who's who of late twentieth-century American poetry." Despite Martin's uncanny success at sniffing out the best poets of his generation, he needed to



sell the archive to finance the press - it's a point of pride for Martin that he financed Black Sparrow for decades with only the sale of its books.

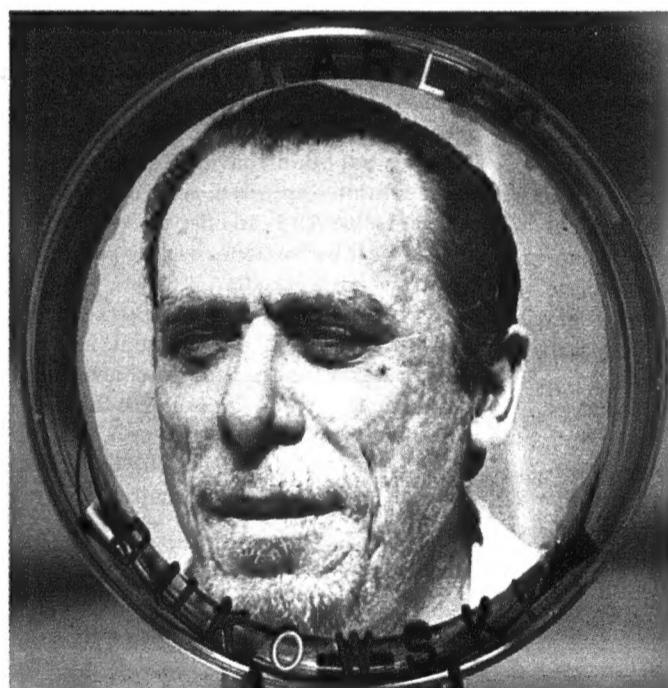
Over the years, he had collected a vast number of papers, first editions, and other material from the press's early days. "This is something you just do as a publisher," Martin said. "It's part of the profession. If you were a doctor, you wouldn't throw away your records. It's a history of how each piece was put together from the first letter to the finished book."

A California bookseller named Richard Mohr told Martin that the U of A might be interested in buying the collection. A deal was set up, and in 1969, the U of A bought 62 of Martin's files for \$23,000, and agreed to buy subsequent files as they became

available.

But only a year later, the deal fell through, creating a rift between the school and the press that lasted for years.

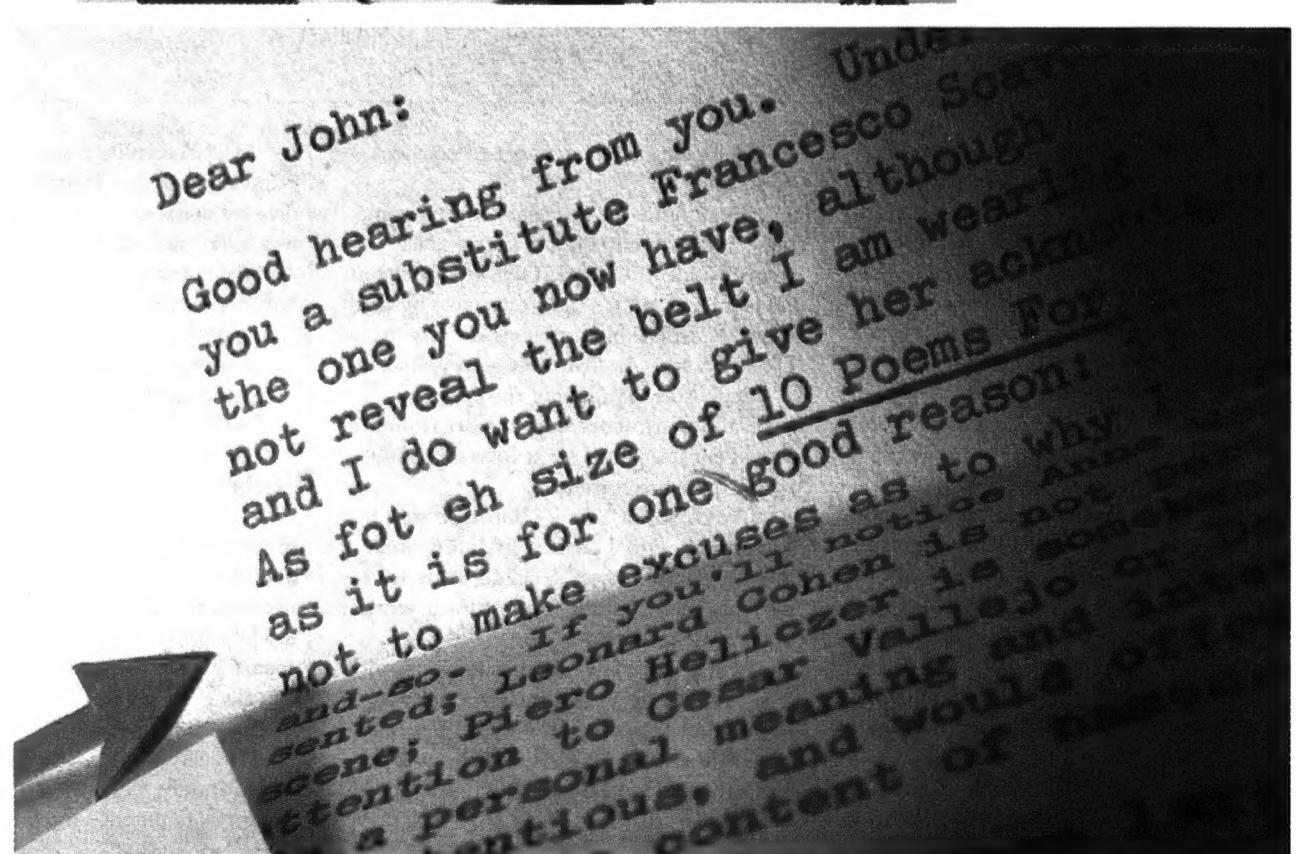
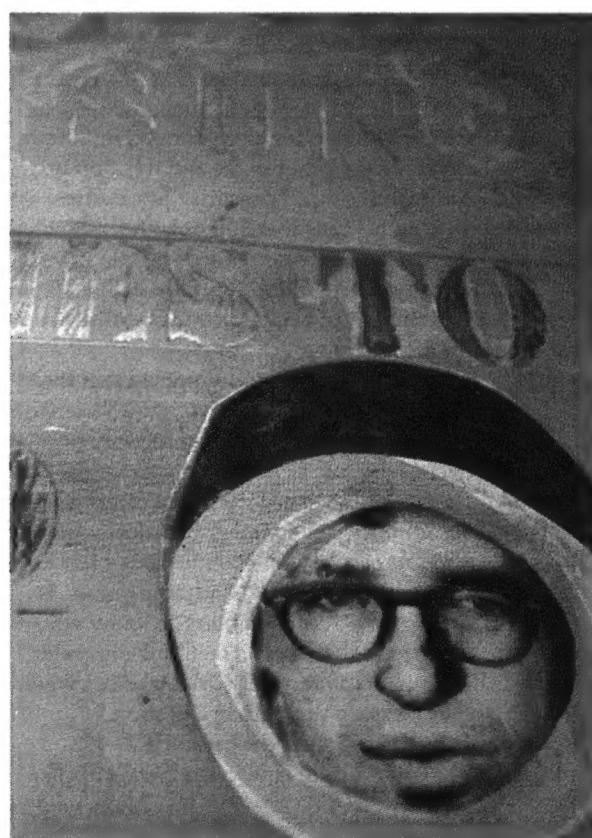
"I was incredibly anxious when I first approached Martin," said O'Driscoll, who needed to get in touch with the publisher to obtain certain permissions for the bibliography he was putting together. "I waited for months until I wrote that letter, because I was really concerned that he would be



Photos: Chui-Ahn Jeong



The Black Sparrow Press exhibit includes sketches of black sparrows by poet Charles Bukowski (top and top right) who designed the publisher's logo; a reel-to-reel tape of Bukowski's work is adorned with a photo of the poet (far left); a standard boxed edition copy of Robert Duncan's *A Selection of 65 Drawings* (left); a special hardcover edition of Kenneth Koch's *When the Sun Tries To Go On* (bottom left) and correspondence from Robert Duncan to Black Sparrow Press founder John Martin discusses graphic design for his book *Names of People* (left).



vindictive."

Martin, though, was anything but. In fact, he was so pleased with O'Driscoll's work when the archive's catalogue was finally published that he asked for extra copies to send to his friends. "I thought they were great," said Martin. "They're just beautiful to look at."

After 36 years in the publishing business, Martin sold the rights to publish many of Black Sparrow's books to HarperCollins in 2002. Though he's now 72, Martin is still working, and has just edited five large collections of poetry by Bukowski for HarperCollins.

Now that Black Sparrow is no more (though it is survived by the books it published), the U of A's

archives, O'Driscoll says, are invaluable for students and literary critics. They provide a more complete picture of the relationships between, and personalities of, the people involved in creating these books. Duncan and Martin, O'Driscoll says, "had an incredibly torturous relationship." At one point in his career, Duncan stopped

publishing poetry altogether, and though the critics have

always thought he did this to, as O'Driscoll puts it, "get in touch with his muse," the letters in the U of A collection show that he simply got fed up with publishers, "even with someone as meticulous and accommodating as Martin," O'Driscoll says. It wasn't until shortly before Duncan's death that the two were able to reconcile.

Not only do the letters provide fascinating glimpses into the personalities of the artists, but the materiality of the book, the very thing that the archive records so well, is one of the hottest topics in literary scholarship today.

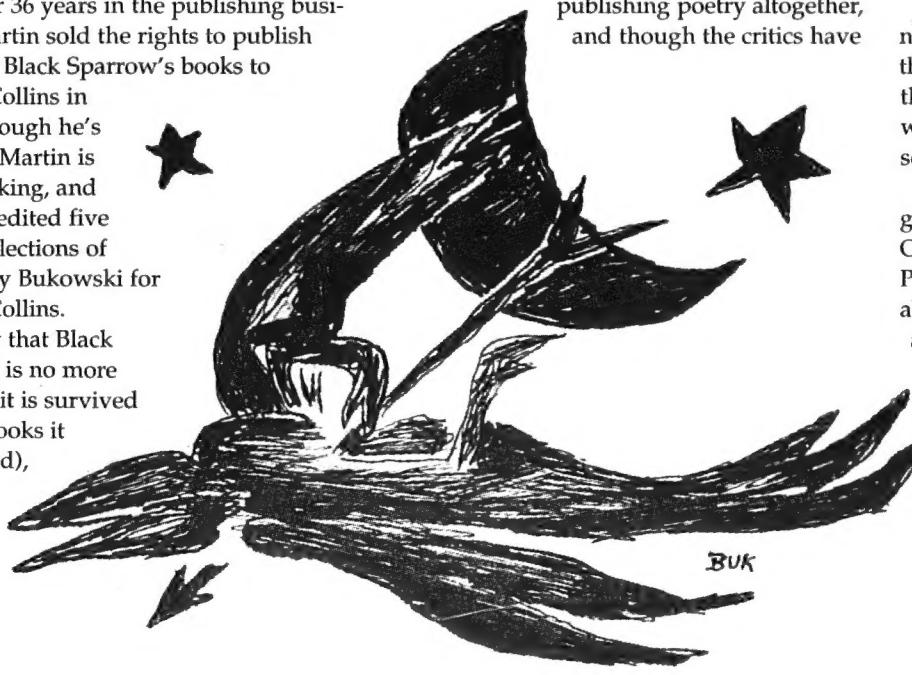
Teresa Cowan, for instance, is a graduate student in English who took O'Driscoll's course on the Black Sparrow Press last year; she curated an exhibition about how the books were marketed, with a special emphasis on Edward Dorn's *Gunslinger* poems. Sometimes, she says, the press would send a colophon, or publication information, to potential buyers. Though the maxim says that you don't judge a book by its cover, this shows that, in fact, the way the book is published does have an impact on its literary reception.

"Instead of Dorn's book being marketed as something that everyone will love, it was marketed with the idea that, 'if you are refined in taste and know anything about American poetry, then you need to have this book,'" says Cowan.

The archive, finally, means many different things to many different people: for people like O'Driscoll and Cowan, it holds a wealth of information for critical study; for Martin, it's a record of much of his life's work; but for most people the archive offers a chance to see what's produced when the finest poetry meets the finest publishing, a chance to sit down with a special edition of a text by Ashbery or Duncan or Bukowski.

"This is absolutely thrilling. As soon as I started to get into this, I put everything to the side, other than this project, because to be able to get into these materials and work with them in a hands-on way was so incredibly exciting," says O'Driscoll.

The Black Sparrow Press exhibit runs until November 2003 in the Bruce Peel Special Collections Library, which is located in the basement of Rutherford Library South. ■



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ROGERS **AT&T**

WIRELESS

EDMONTON

CENTRAL

10176 - 109 St.

426-2355

12302 Stony Plain Rd.

488-6622

Edmonton City Centre

10200 - 102 Ave.

421-4540

NORTH

Costco North

993-5188

12924 - 97 St.

473-2355

EAST

Capilano Mall
(outside entrance by Safeway)

450-6880

6558-28 Ave.

440-2812

6839 - 83 St. (Argyll Rd.)

465-5271

SOUTH

6031 - 103 St.

438-2355

9128 - 51 Ave.

438-5114

South Edmonton Common

485-9812

South Edmonton Common
(inside Superstore)

701-3355

Southgate Centre

434-5620

Costco South

909-4544

9261 - 34 Ave.

702-6001

WEST

West Edmonton Mall Phase II
(by skating rink)

413-9855

West Edmonton Mall Phase III
(by London Drugs)

443-3022

10013 - 170 St.

408-8917

10608 - 170 St.

489-2255

Costco West

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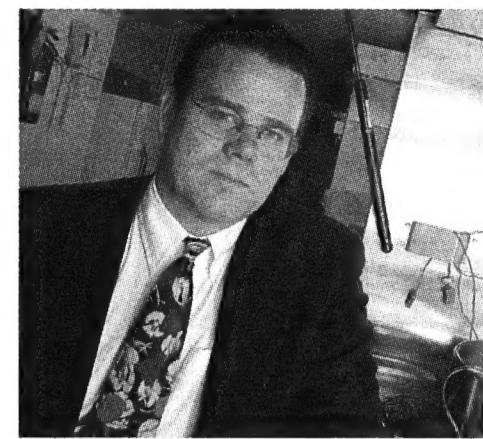
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Dr. Jonathan Lakey

Edmonton Protocol pioneers strike again

14-year-old undergoes rare surgical procedure

By Ryan Smith

Two University of Alberta researchers have managed another Canadian medical first.

Dr. James Shapiro and Dr. Jonathan Lakey directed a pancreas removal-islet-cell transplantation surgery on a 14-year-old girl earlier this month. It is only the second time this surgery has been performed on a child and the first time in Canada. Shapiro and Lakey are two principal members of the U of A Edmonton Protocol team, which developed an islet-cell transplantation procedure to treat patients with severe type 1 diabetes.

Amanda Marr-Crouse of New Brunswick had been suffering from genetic pancreatitis. The only current treatment is pancreas removal, which leads to the onset of diabetes because the body loses its islet cells – the cells found in the pancreas and used to form insulin.

The surgery Shapiro and Lakey performed on Marr-Crouse has "been around for awhile" for adults, Lakey said. But it has only been performed twice so far on children because it is rare for children to show signs of the disease.

During the eight-hour procedure, Shapiro removed the pancreas, and then Lakey culled islet cells from it, which were then injected into the liver.

"It will take time for the islet cells to in-graft in the liver and develop a new

blood supply," Lakey said. "The pancreas was abused and scarred; it was difficult, but we were able to get some cells out and hopefully enough so that we won't need to inject more islet cells from a donor in the future."

Marr-Crouse was treated at the Stollery Children's Health Centre in the U of A Hospital. She returned home to the Maritimes where she was expected to remain in post-operative care for two weeks in a hospital in Halifax.

"We're fairly optimistic that she'll be able to lead a healthy, normal life now," Lakey said. ■

Lake reveals evidence of pre-Incan silver industry

Discovery presents new questions

By Phoebe Dey

Sediment at the bottom of a lake high in the Bolivian Andes suggests an active silver mining industry existed in the region earlier than anyone had previously imagined, even predating the Incas.

The University of Alberta's Dr. Alexander Wolfe, from the department of Earth and Atmospheric Sciences, and Dr. Mark Abbott from the University of Pittsburgh, took samples from lake sediments deposited near the major silver deposit of Cerro Rico de Potosi, Bolivia. From concentrations of metals associated with smelting, such as lead, they inferred the history of smelting from the mountain's rich ores, proving that an active metallurgical industry existed well before the Incas discovered the mountain – as far back as the 11th century. The research is published in the current edition of the prestigious international journal, *Science*.

"We began seeing high levels of lead, which are heavy and not mobile in sediments and therefore make good markers for air pollution and for monitoring metallurgical activity," said Wolfe. The Incas used a lead-containing flux to extract silver and to regulate the temperature of smelting, and that substance provides a reliable marker in the lakebed sediments.

The team was able to compare the sediment samples with metals in the naturally occurring background from several thousand years ago and map out a chronology that shows when smelting took place. "We found a gross mismatch between the amount of silver apparently smelted from the mountain and the scant regional archaeological evidence in the form of silver artifacts that have survived," said Wolfe.

The lake sediment record shows "no previous evidence for the intensity of metallurgy in the pre-Columbian times," he added.

Although it is impossible to determine



Dr. Alexander Wolfe hauls a Zodiac boat in the Bolivian Andes.

how much silver was extracted from Cerro Rico, the research team's data implies that several thousand tons of silver were produced in pre-Incan times. There are two possibilities for the missing silver artifacts manufactured during the pre-Incan era: the silver has not yet been located by archaeologists or, more likely, subsequent cultures have looted the artifacts.

"Although major new archaeological discoveries in the Andes remain a distinct possibility, the likelihood seems equally probable that most of this silver was recycled and transported elsewhere in the Americas before conquest, or eventually exported overseas by the Spanish," the paper states.

The research also shows that early Andean cultures faced many challenges often associated with modern times. They were quite advanced technologically—so much so that they were capable of severely polluting the atmosphere, as illustrated by the lead levels. This culture also apparently remained vulnerable to climate change, as evidenced by the decline of smelting (1200-1400 AD) during a known interval of drought. ■

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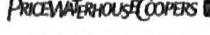
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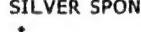
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Alumni donates \$1 M for wireless studies

Industry leader gives back to university

By Sherrell Steele

Rohit Sharma, a University of Alberta engineering graduate and one of the founders of ONI Systems Corp., has established a \$1.075-million endowment for the Rohit Sharma Professorship in Communications and Signal Processing at the U of A. The endowment will also provide ongoing, annual support for a graduate student or graduate students in this discipline.

Dr. Witold Krzymien, a professor of electrical and computer engineering at the U of A, has been named the first holder of the Sharma professorship.

"To have Rohit Sharma's support is particularly gratifying, because it not only confirms the relevance of our work to industry leaders, but also makes us realize how our educational efforts help launch our best students into positions of prominence and influence," Krzymien said.

Sharma graduated with a master's degree in electrical engineering in 1991, and returned to the U of A for his PhD in 1996. He is currently the executive-in-residence at Mohr Davidow Ventures in Menlo Park, California. Last week at the U of A Alumni Reunion ceremony, Sharma received an Alumni Horizon Award, an annual award given to a U of A alumnus who achieves early career success.

ONI Systems Corp. was the first metro-

focused telecom company to go from start-up to IPO during the late 1990s. In June 2002, the firm shook up the communications industry when it merged with CIENA Corp., in a share-exchange transaction worth \$900 million US.

"Dr. Krzymien is a worthy holder of this professorship. His research is recognized internationally by both leading academics and industry, including corporations such as Nortel Networks and Ericsson Wireless Communications."

— Dr. David Lynch

"I hope that these new positions will contribute valuable research and ideas to the U of A, and the engineering community in Canada and beyond," Sharma said.

"Dr. Rohit Sharma is an excellent ambassador for the U of A Faculty of Engineering, and he is a fine

example of the high-quality of engineering graduates who are produced here," said Dr. David Lynch, dean of the U of A Faculty of Engineering.

Lynch also had praise for Krzymien, whose current research is focused on wide-band, wireless high-throughput packet data access to the Internet for nomadic and mobile users, employing adaptive multi-carrier transmission, spread-spectrum signaling, and MIMO (multiple-input multiple-output) antenna techniques.

"Dr. Krzymien is a worthy holder of this professorship. His research is recognized internationally by both leading academics and industry, including corporations such as Nortel Networks and Ericsson Wireless Communications." ■



UNIVERSITY OF ALBERTA

REPORT TO THE CAMPUS

Board of Governors' Chair Jim Edwards invites the University of Alberta community to attend the Report to the Campus

Wednesday, October 29, 2003

12 noon – 1 p.m.

Convocation Hall, Old Arts Building

Program: University Report, President Dr. Rod Fraser, Board of Governors Awards of Distinction and a Question-and-Answer period of approximately 30 minutes

Let us know what issues you would like addressed at this meeting by sending your questions to - emilyp.rowan@ualberta.ca

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talks & events

Submit talks and events to Cora Doucette by 9 a.m. one week prior to publication. Folio Talks and Events listings will no longer accept submissions via fax, mail, e-mail or phone. Please enter events you'd like to appear in Folio and on ExpressNews at: <http://www.expressnews.ualberta.ca/ualberta/L2.cfm?c=10>

OCT 10 2003

University Teaching Services Is the Scholarship of Teaching a Meaningful Concept? This session explores the meaning of the scholarship of teaching. The question of whether the scholarship of teaching is something that individual academics can practice or whether it is a campus initiative will be addressed. Facilitator: Margaret Haughey, Educational Policy Studies. Time: noon to 1:00 p.m. Location: CAB 219. Website: www.ualberta.ca/~uts

Department of Music The University of Alberta Madrigal Singers and Kokopelli Chamber Choir will present a joint concert featuring excerpts from Vaugh Williams Mass in G. West End Christian Reformed Church. For tickets and other information call 492-5306. 8:00 p.m.

Department of Philosophy Professor Patricia Kitcher, Department of Philosophy, Columbia University, presents "Kant's Argument for the Categorical Imperative." 3:30 p.m. Location: Humanities Centre 4-29. For more info please contact: Wendy Minns (wendy.minns@ualberta.ca)

Department of Physiology Dr. Joseph R. Casey, Department of Physiology, U of A, presents: "The Bicarbonate Transport Metabolon and Beyond." Time: 3:00 p.m. Location: 207 HMRC.

OCT 10 - 22 2003

University Extension Centre Gallery Terry Elrod - "The Expressive Landscape: En Plein Air Paintings of Central Alberta and Southern Vancouver Island." A final presentation for the Certificate in Fine Arts Preview and Artist's Talk: Thursday, Oct. 9, 7-8 p.m. Opening reception: Friday, Oct. 10, 6-8 p.m. Gallery Hours: Monday through Thursday 8:30 a.m.-8:00 p.m. (Oct 13 closed), Friday 8:30 a.m.- 4:30 p.m. and Sat. (9 a.m.- noon). Location: 2nd Floor, 8303 - 112 Street, University Extension Centre Gallery.

OCT 11 2003

The Academic Support Centre Strategies for Learning Anatomy & Physiology. From 10 a.m. - 12 noon in Room 2-725 SUB. Cost is \$30. Covers strategies for learning information in anatomy and physiology courses. Must pre-register at the Academic Support Centre 2-703 SUB.

The Academic Support Centre Exam Strategies. From 1 - 3 p.m. in Room 2-725 SUB. Cost is \$30. Covers how to study for and take multiple choice, short answer, essay and problem-solving exams. Must pre-register at the Academic Support Centre 2-703 SUB.

OCT 12 2003

Norman Nawrocki Event sponsored by APIRG (Alberta Public Interest Research Group) and FUSS working group. Montreal actor and sex advocate Norman Nawrocki brings his hilarious and provocative one-man hit 'sex' comedy cabaret "I Don't Understand Women" to the U of A Dinwoodie Lounge. Website: <http://www.nothingness.org/music/rhythm/web/understand.html>

OCT 14 2003

The Sandin Lectures Professor Paul A. Wender of Stanford University delivers the first of three talks in this year's Sandin Lectures. He presents "The Chemistry-Medicine Continuum: The Design, Synthesis and Evaluation of New Medicinal Leads" at 1 p.m., room V-107 in Chemistry-Physics Wing of the Gunning/Lemieux Chemistry Centre.

University Teaching Services 1. Bringing Your Class on Board: Applying the Letter Grading System (E). You are part of history. On September 1st, 2003 the University of Alberta moved to a letter grading system. This session informs you of the principles and specifics of the new grading system to assist you with its implementation. Presenter: Brian Nielsen, Physical Education and Recreation. Time: 3:30 - 5:00 p.m. Location: CAB 243. Website: www.ualberta.ca/~uts

OCT 14 - 17 2003

Career and Placement Services (CaPS) FREE Brown Bag Seminars. New menu items on the FREE brown bag lunch seminar menu! Working With Recruitment Firms, Applying to Graduate School, Becoming a Lawyer: First Steps & Looking for Work Abroad. All seminars take place in the CaPS Resource Centre & pre-registration is not necessary. Location: CaPS, 2-100 SUB. Website: www.ualberta.ca/caps

OCT 15 2003

Department of Public Health Sciences

PHS Colloquium & Grand Rounds. Dr Lory Laing, Professor, "Measuring the Effectiveness of the Aboriginal Diabetes Wellness Program." 12:00 Noon to 12:50 p.m. Location: Room 2-117, Clinical Sciences Building. Website: www.phs.ualberta.ca

International Institute for Qualitative Methodology Research Methodology Series. "Anthropologic Research Methods." Dr. Andie Palmer, Associate Professor, Department of Anthropology, University of Alberta. 12 noon-1 p.m. Everyone welcome, bring your lunch! Location: 6-10 University Extension Centre, 8303-112 Street. Website: <http://www.ualberta.ca/~iigm>

University Teaching Services Teaching, Indoctrination, and Abandonment (I). Teaching is usually judged effective or successful if the student learns what the instructor intends. But in bringing our students toward our intended learning goals, how can we ensure that we navigate skillfully between the Scylla of indoctrination and the Charybdis of abandonment? Facilitator: Dougal MacDonald, Elementary Education. Time: noon to 1:00 p.m. Location: CAB 219. Website: www.ualberta.ca/~uts

Department of Music University of Alberta Symphonic Wind Ensemble. William H Street, Director. Grainger, Hindemith, Nelson, Prokofiev and Ticheli. Convocation Hall. 8:00 p.m.

The Sandin Lectures Professor Paul A. Wender of Stanford University delivers the second of three talks in this year's Sandin Lectures. He presents "Step Economy and the Ideal Synthesis: The Design and Discovery of New Transition Metal Catalyzed Reactions" at 11 a.m. in room V-107 in the Chemistry-Physics Wing of the Gunning/Lemieux Chemistry Centre.

OCT 16 2003

Department of Medical Genetics

"Founder effect for hereditary colon cancer in Newfoundland." Dr. Jane Green, Professor with the Health Sciences Centre in Newfoundland, will present a 45 minute seminar (12:15 to 1:00 p.m.) indicating the major genes involved in hereditary colon cancer and the importance of genetic cancer testing for human health. Location: Room 140, Telus Centre. Website: www.uofa-medical-genetics.org/

Environmental Research and Studies Centre Climate Change: Adaptation and Vulnerabilities. "The vulnerability of Alberta's water in the 21st century." Dr. David Schindler, Biological Sciences, UofA. Location: Dentistry Pharmacy 2022. From 4:30 p.m. to 5:30 p.m. Website: www.ualberta.ca/ERSC/es.htm

International Centre "Private Interests vs. Public Goods: Cross Canada Privatization Tour." Across Canada and around the world citizens are facing a rising tide of privatization of essential services. Come learn about the global impact of privatization and strategies to preserve public goods from privatization. With: Virginia Setshedi, an activist with the Soweto Electricity Crisis Committee and Rudolf Amenga-Etego-Ghana, national campaign coordinator of the Coalition Against the Privatization of Water in Ghana. This free public lecture begins at 8:00 p.m. Location: Tory TB 87.

Department of Chemistry Professor Giles Lajoie, University of Western Ontario, London, Ont. presents "Structure-Function Studies of Histatins, Antifungal Peptides from Human Saliva." 1:00 p.m. Location: E3-25 Gunning/Lemieux Chemistry Centre.

University Teaching Services Building a Culture of Respect in the Classroom (M). A respectful and inclusive classroom environment is one that invites all students to engage in the learning process. This session identifies the ingredients for creating a culture of respect in the classroom. Presenters: Ashley Daniel and Janet Smith, Office of Human Rights. Time: 3:30 - 6:00 p.m. Location: CAB 281. Website: www.ualberta.ca/~uts

The Sandin Lectures Professor Paul A. Wender of Stanford University delivers the final talk in this year's Sandin Lectures. He presents "Breaching Biological Barriers: The Design of New Drug Delivery Systems" at 10 a.m. room V-126 in the Chemistry-Physics Wing of the Gunning/Lemieux Chemistry Centre.

OCT 17 2003

Academic Technologies for Learning

Enhancing Learning Through Interactive Learning Object Design. Workshop leader: Tracy Penny Light from the University of Waterloo. In this one-day workshop participants will work in project groups as they experience the process of learning object design by designing a prototype for a learning object. Topics such as learning styles, project management, paper prototyping, evaluation, and con-

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structivist learning theory will also be addressed. Participants, therefore, will experience the process in practice. Due to the focus on learning in this workshop participants are asked to complete the Solomon-Felder Index of Learning Styles quiz <http://www.ncsu.edu/felder-public/ILSdir/ilsweb.html> and to bring a print-out of their preferences to the workshop. From 9:00 a.m. until 4:30 p.m. Cost \$100.00. Space is limited. Location: TELUS 238. Website: <http://www.atl.ualberta.ca/>

Biological Sciences Department of Biological Sciences Molecular Biology and Genetics Research Group and Genetics 605 Seminar Series. Andrew Waskiewicz with the Department of Biological Sciences of the University of Alberta is presenting a seminar on "The role of homeodomain transcription factors in patterning the zebrafish hindbrain." 3:30 p.m. in Room M-149 of the Biological Sciences Building. Host: Shelagh Campbell. Website: <http://www.biology.ualberta.ca/courses/genet605/>

Department of Music Music at Convocation Hall, Ménage B Trio, Stéphane Lemelin, piano, Martin Risseley, violin, Tanya Prochazka, cello, Bedrich Smetana, Trio in G Minor, Op 15, Vitezslav Novak, Trio quasi una Ballata, Op 27, Antonin Dvořák, Trio in E Minor, Op 90 (Dumky). 8:00 p.m. Admission: \$10/student/senior, \$15/adult.

OCT 17 - 19 2003

Alberta Social Forum The Alberta Social Forum will be an open, participatory, weekend festival intended to create a space for the voices of all Albertans who are opposed to neo-liberal globalization and oppression of all kinds and who are working towards more just, sustainable, humane and peaceful alternatives on a local, provincial and global level. October 17-19, 2003 Education Building, UofA campus www.albertasocialforum.ca.

OCT 18 2003

Super Research Saturday Free Public Lectures on timely and relevant Health and Science Topics. Tours to Science Labs, NANUC MRI Facility, etc. Beginning at 10:00 AM and ending at 4:00 PM. Free Parking at Corbett Hall Coffee & Tea provided. Bring a lunch and spend the day learning the latest in Research at the University of Alberta. Location: Corbett Hall.

Parking Services Garage Sale Parking Services is hosting an Indoor Garage Sale in support of the United Way Campaign from 10:00 a.m. - 4:00 p.m. on Saturday, October 18. For information contact 492-7275. Location: Timms Centre Car Park.

Department of Music String Quartet Masterclass with Visiting Artists Penderecki Quartet, Studio 27, Fine Arts Building. 4:00 p.m. General admission: \$15.

OCT 21 2003

Academic Technologies for Learning Online Writing Courses for Creative People: The Challenges of Managing an International Web-Based Learning Environment. An international leader in the field of online teaching, Sue Thomas will talk about her experiences as the Artistic Director of the trACE Online Writing School <http://www.tracewritingschool.com>. A division of Nottingham Trent University and the world's largest online writing program, trACE offers courses in creative writing in a 100% web-based environment. Free, but please register in advance at the ATL website. Location: TELUS 134. Time: 4:15 to 6:00 p.m. Website: <http://www.atl.ualberta.ca/>

Dept of AFNS Visiting Speaker Seminar "Nutrition in Inflammatory Bowel Disease: Role of Micronutrients" Dr. Johane Allard, Dept of Medicine and Nutritional Sciences, University of Toronto. Happens from 10:30 to 11:30 a.m. in Classroom F (2J4.02) WMC.

OCT 22 2003

Department of Educational Policy Studies Educating the Professions: Challenges for Leadership in Society. This lecture will be presented by Professor Bart McGettrick, University of Glasgow. Director of the Centre for Inter-Professional Leadership at the University of Glasgow, Professor McGettrick has been examining the changing role of professionals in this postmodern world. Location: Education North Tower, 7-152. 10:00 a.m. to 12:00 noon.

Department of Public Health Sciences PHS Colloquium & Grand Rounds. PHS Students' Association presents Mr Bob McKim, MSc, Evaluation Coordinator, North East Community Health Centre and Primary Care Division, Capital Health, "Harm Reduction for Illicit Drug Misusers as Practiced in a Primary Health Care Setting." Location: Room 2-117, Clinical Sciences Building. 12:00 Noon to 12:50 p.m. Website: www.phs.ualberta.ca

Fall 2003 WestGrid Orientation Sessions WestGrid is a \$48 million project to install computing infrastructure for research across Alberta and BC. The resources are scheduled to come online by November. Researchers are invited to attend information sessions that will describe the computing resources available, their potential uses, and access and support information. From 3:00 - 4:30 p.m.

Wine and cheese from 4:30 to 6:00 p.m. Location: Telus Centre, 236. Website: www.westgrid.ca

International Institute for Qualitative Methodology Research Methodology Lecture Series. "Aboriginal Researchers and Research Methods: Cultural Determinants or Cultural Influences on Methodology." Cora Weber-Pillwax, First Nations Education, Education Policy Studies. 12 Noon-1:00 p.m. Specific cultural determinants of research methodology and research methods amongst Northern Metis/Cree people will be discussed. Location: 6-10 University Extension Centre, 8303-112 Street. Website: <http://www.ualberta.ca/~iigm>

Department of English Reading by Myrna Kostash. This inaugural reading by the 2003-04 Department of English Writer-in-Residence will be held at 3:30 p.m. Location: HC L-3. Website: www.humanities.ualberta.ca/english

OCT 22 - 23 2003

Career and Placement Services (CaPS)

Workshops for Graduate Students. So You Want to Be an Academic (For Science Students): Wednesday, October 22, 2003. So You Want to Be an Academic (For Arts Students): Thursday, October 23, 2003. Pre-register at CaPS, 2-100 SUB. All workshops are \$20.00 (student price). Location: CaPS classroom; 4-02 SUB. Website: www.ualberta.ca/caps

OCT 23 - 25 2003

Canadian Association for Physical Anthropology

The annual meeting of CAPA includes papers and posters on all aspects of physical or biological anthropology. At the Varscona Hotel October 23 and 24, there will be presentations on skeletal biology, human biology, palaeoanthropology, primatology, bone chemistry and forensic anthropology. On October 25, there will be an all day Dental Anthropology symposium. More information can be found on the conference website at: <http://maci.arts.ualberta.ca/CAPA2003/index.htm>. Varscona Hotel, Whyte Avenue; October 25: Dentistry-Pharmacy 2022 (U of A campus).

OCT 24 2003

Biological Sciences Department of Biological Sciences Molecular Biology and Genetics Research Group and Genetics 605 Seminar Series. Billie Swalla from the University of Washington, WA is presenting a seminar on "Origins of chordates: worms or squirts?" 3:30 p.m. in Room M-149 of the Biological Sciences Building. This seminar is co-sponsored by AHFMR and is hosted by Dr. Shelagh Campbell. Website: <http://www.biology.ualberta.ca/courses/genet605/>

Department of Physiology Speaker: Dr. Morris Karmazyn, Department of Physiology and Pharmacology, University of Western Ontario, "The Myocardial Na-H Exchanger in Ischemic Heart Disease and Failure: From Molecular Regulation to Therapeutic Intervention." Time: 3:00 p.m. Location: 207 HMRC.

University Teaching Services Leading a Balanced Life (S). This session will show that the key aspect of balance is one of choice. We will explore the power of perspectives and look at what clearly saying "yes" or "no" to various alternatives can mean. Presenter: Billy Streat, Physical Education and Recreation. Time: noon - 1:30 p.m. Location: CAB 219. Website: www.ualberta.ca/~uts

OCT 25 2003

Fall meeting of the Alberta Society of Melanoma

The Alberta Society of Melanoma is hosting a public information seminar about the psychological implications of living with cancer. Two guest speakers from the Cross Cancer Institute (CCI) will be presenting different aspects about this topic and the support programs offered at the CCI. Members of the public are invited. The seminar and annual Fall meeting of the Society will be held on Saturday, October 25 from 10:30-12:00 at the Cross Cancer Institute, room 5-041. There is no cost for this event and refreshments will be served. For more information you can call 718-7959.

Northern Science Award Reception. The award is presented to an individual or a group of indigenous people who have made a significant contribution to knowledge and understanding of the Canadian North. The 2003 Northern Science Award is being presented by the Honourable Robert Nault, Minister of Indian Affairs and Northern Development, to Dr. Ian Stirling of the Canadian Wildlife Service, and Adjunct Professor of Biological Sciences. Location: Lobby, Timms Centre. From 5:30 p.m. to 7:00 p.m. Website: http://www.ainc-inac.gc.ca/nstp/awd_e.html

OCT 24 - 26 2003

Canadian Circumpolar Institute The 7th ACUNS Student Conference on Northern Studies will be an international forum held at the University of Alberta. "Breaking the Ice: Transcending Borders through Collaboration and Interdisciplinary Research", will showcase student research with a northern scope and interdisciplinary inquiries. We are pleased to offer simultaneous English-French-English translation during the conference presen-

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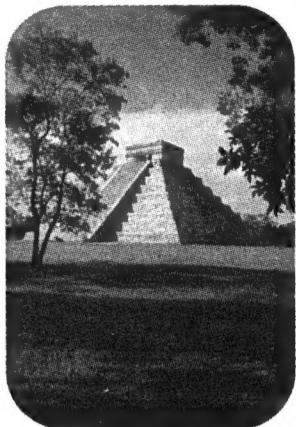
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tations. The abstract deadline has already passed and we have reviewed the submissions. Please e-mail the conference co-chair if you would like more information or a conference program outline (Audrey Giles,). Location: Telus Centre. Website: <http://scns.onware.ca>

OCT 26 2003

Department of Music Faculty & Friends

Malcolm Forsyth, Conductor, Alvin Lowrey, trumpet, Russell Whitehead, trumpet, Joel Gray, trumpet, Nancy McBride, trumpet, Gerry Onciu, horn, John McPherson, trombone, Kathryn Macintosh, trombone, Ryan Purchase, trombone, Chris Taylor, bass trombone, Scott Whetham, tuba, Malcolm Arnold, Symphohey for Brass, Op. 123, Einojuhani Rautavaara. Playgrounds for Angels and other works. Convocation Hall, 8:00 p.m.

Admission: \$10/student/senior, \$15/adult.

OCT 26 - 27 2003

Canadian Circumpolar Institute (CCI)

Association of Canadian Universities for Northern Studies. Annual General Meeting. ACUNS is a voluntary association of 35 Canadian universities and northern colleges with northern programs and interests. The Annual General Meeting is open to the public. Location: Telus Centre. Website: <http://www.cyberus.ca/~acuns/EN/about.html>

UNTIL OCT 31 2003

Department of Human Ecology 1950s

Retrospective Exhibit. 1950s Retrospective is an exhibit created by students from Human Ecology and Art & Design. It includes clothing and household furnishings from the 1950s. Hours: Monday - Friday 8 - 8, Saturday 8 - 4, Sunday 12 - 4. No Admission. Location: Human Ecology Lobby Gallery, Human Ecology Building.

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INTERNATIONAL PARTNERSHIP FUND

The "International Partnership Fund" (IPF) was established to support University of Alberta faculty and staff participating in exchange activities with the university's many partner institutions around the world. The IPF aims to facilitate projects that will help develop sustainable relationships between the University of Alberta and partner institutions. The funds may be used for travel by either the U of A staff member or a visitor from the partner institution for support of the development of activities with the partner, short-term visits for joint research collaboration, or other worthwhile academic purposes.

Support from the IPF will ideally complement support from the applicant's faculty or department, and the institution to which they propose to go.

Note: The IPF only applies to those institutions with which the U of Alberta has formal agreement.

Guidelines, application forms and list of partner institutions may be downloaded from University of Alberta International website at:

<http://www.international.ualberta.ca/>

Application deadline: November 1, 2003

EFF-FSIDA (FUND FOR SUPPORT OF INTERNATIONAL DEVELOPMENT ACTIVITIES)

The deadline for receipt of applications to the EFF-FSIDA is 4:30 PM, October 15, 2003. The next competition deadline dates are January 15, 2004 and April 15, 2004.

This Fund exists to enable staff and graduate students (normally PhD candidates) of the University of Alberta to participate in research and in the international transfer of knowledge and expertise through partnerships in developing countries.

Applications and guidelines are available on

the University of Alberta International website <www.international.ualberta.ca> under "International Cooperation" and "Funding Opportunities" or from the FSIDA Secretary at University of Alberta International, 1204 College Plaza, 8215-112 Street, telephone 492-6440.

THE REUBEN BENJAMIN SANDIN LECTURES

The Reuben Benjamin Sandin Lectures will be presented this year by Professor Paul A. Wender of Stanford University.

Professor Wender is a major figure in the field of Organic Chemistry, and is distinguished for his numerous syntheses of structurally intricate natural products. His work has taken Synthetic Organic Chemistry to new heights, and is characterized not only by its elegance, but also by the introduction of powerful general strategies.

Professor Wender is also known for his outstanding talents as a teacher, and he is the recipient of the ASSU Undergraduate Teaching Award, the Hoagland Prize for Undergraduate Teaching, the Bing Teaching Award, and the Dean's Teaching Award — all from Stanford.

Tuesday, October 14 - 1:00 P.M.

Room V-107 in Chemistry-Physics Wing

"The Chemistry-Medicine Continuum: The Design, Synthesis and Evaluation of New Medicinal Leads"

Wednesday, October 15 - 11:00 A.M.

Room V-107 in Chemistry-Physics Wing

"Step Economy and the Ideal Synthesis: The Design and Discovery of New Transition Metal Catalyzed Reactions"

Thursday, October 16 - 10:00 A.M.

Room V-129 in Chemistry-Physics Wing

"Breaching Biological Barriers: The Design of New Drug Delivery Systems"

positions

The records arising from this competition will be managed in accordance with provisions of the Alberta Freedom of Information and Protection of Privacy Act (FOIPP). The University of Alberta hires on the basis of merit. We are committed to the principle of equity of employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and Aboriginal persons. With regard to teaching positions: All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. For complete U of A job listings visit www.hrs.ualberta.ca

RESEARCH MANAGER, DEPARTMENT OF CHEMICAL AND MATERIALS ENGINEERING

In collaboration with Syncrude Canada Ltd and NSERC, the University of Alberta established an Industrial Research Chair in Advanced Upgrading of Bitumen in the Department of Chemical and Materials Engineering in 2000. The objective of the Chair program is to conduct innovative research on upgrading processes and strengthen the interaction between university and industry.

The Research Manager position in the Industrial Research Chair program involves the following duties: supervision and execution of research projects associated with the Chair program; and, teaching in the department of Chemical and Materials Engineering.

The candidate will hold a PhD in Chemical Engineering, Chemistry or Microbiology. Research

experience should complement the goals of the Chair program, for example: organic synthesis and supramolecular chemistry; chemical reaction engineering (catalytic or non-catalytic reactions); and, bioprocessing and bioremediation.

The salary for this term position will be in the range \$35,000 - \$40,000 per year, depending on experience. It is available immediately and continuing to the end of the term of the Chair program in February, 2005. The position will remain open until filled.

Applications, including a curriculum vitae and names of three referees, should be submitted to:

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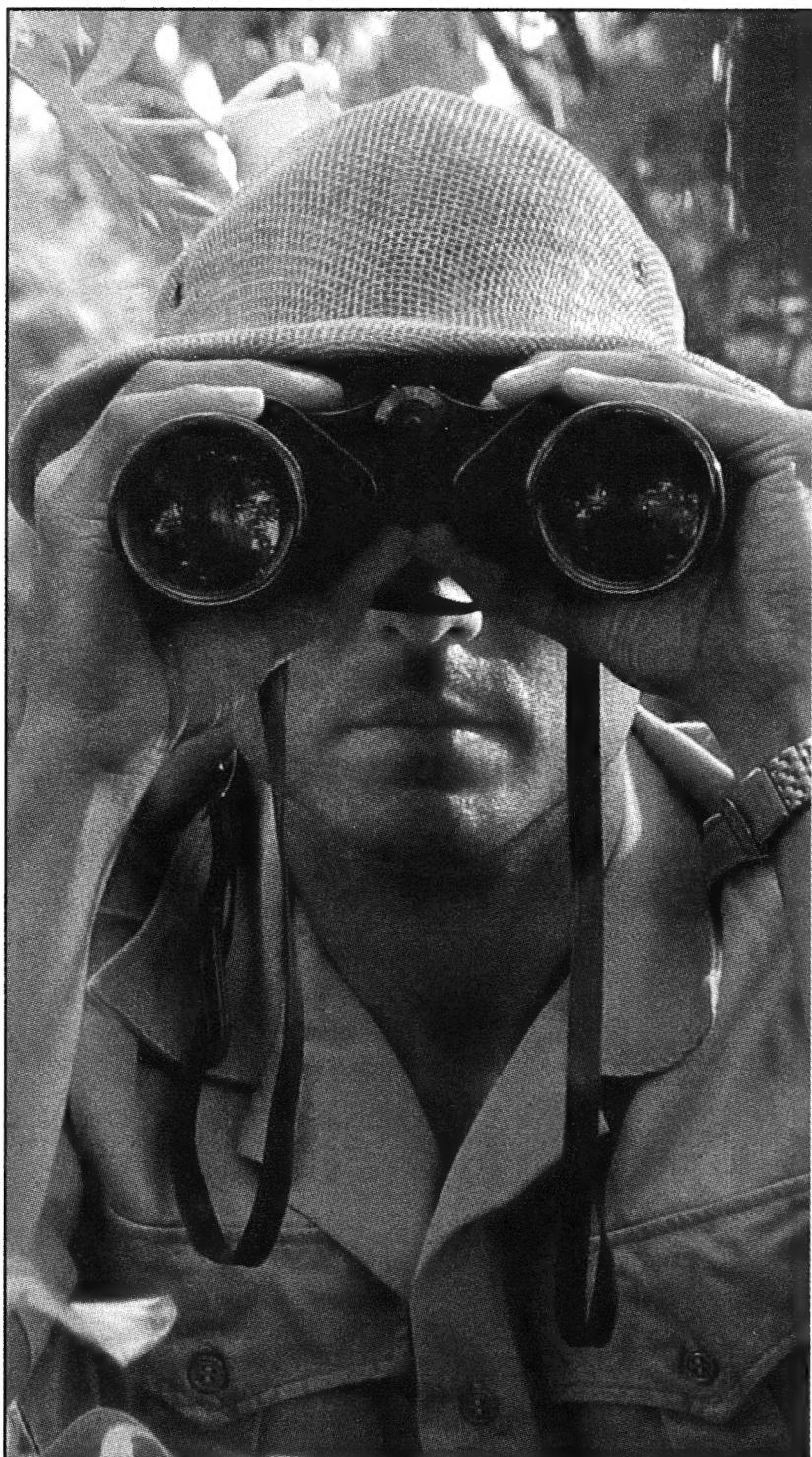
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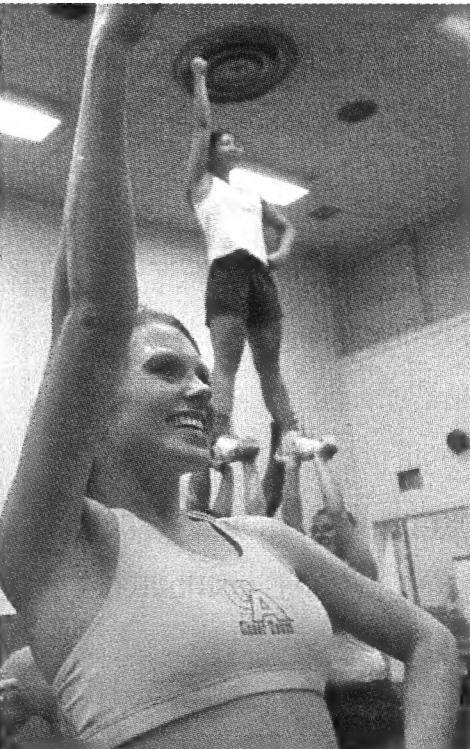
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Cheer club flips for fans

By Richard Cairney

The home team is going down fast. Once feisty fans now sit in despair, wondering what has gone wrong.

Then the music cranks up and the U of A Ambassador Cheer Athletic Club bounds up and its members start throwing one another overhead, spinning, tumbling and contorting in ways you never thought possible. Not that you'd try it, let alone imagine it.

Next thing you know the crowd is back in the game, moving from dejected onlookers to rabid fans in an instant.

It's all in a game's work for the cheer club, says coach Kim Fissel, a former Edmonton Eskimos cheerleader who helped breath new life into the U of A cheer squad three years ago, bringing the team to a second-place finish in national all-girls cheering competition and 12th overall last year.

This year the team of U of A students is

busy raising funds to compete in Las Vegas in February. Fissel is confident they'll do well.

"We have an amazing group of people – this is probably the most talented team we have had ever," Fissel said.

What makes them so good?

"For some of them it is experience but more than anything it is the drive," she explained.

Club members take on a lot of work: there are three mandatory workouts a week, two practices, games to work and fundraising – all on top of academics.

"In our first year we had 20 people who wanted to be on the team so we had 20 people on the team. This year we had 60 people try out and they start to weed themselves out.

The club also attends high school cheering competitions as an exhibitor, wowing

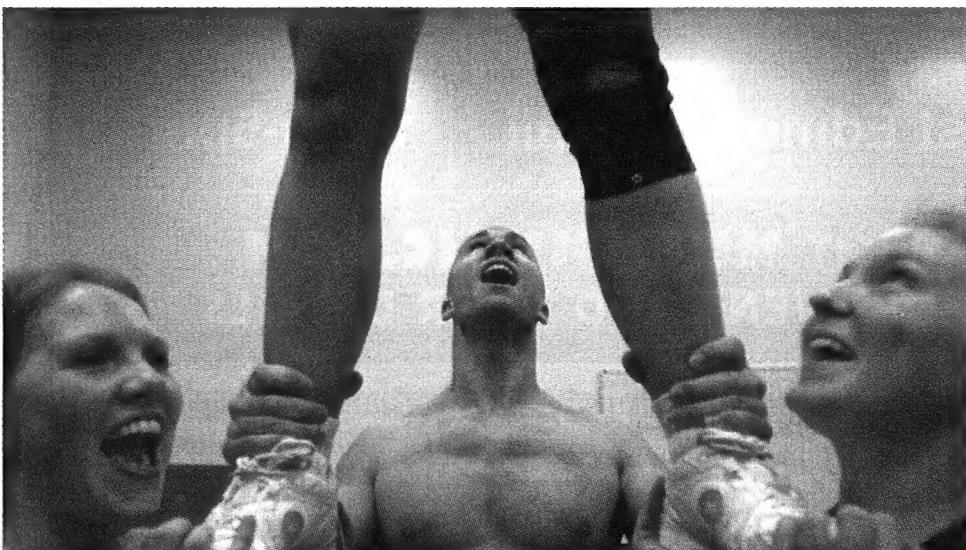
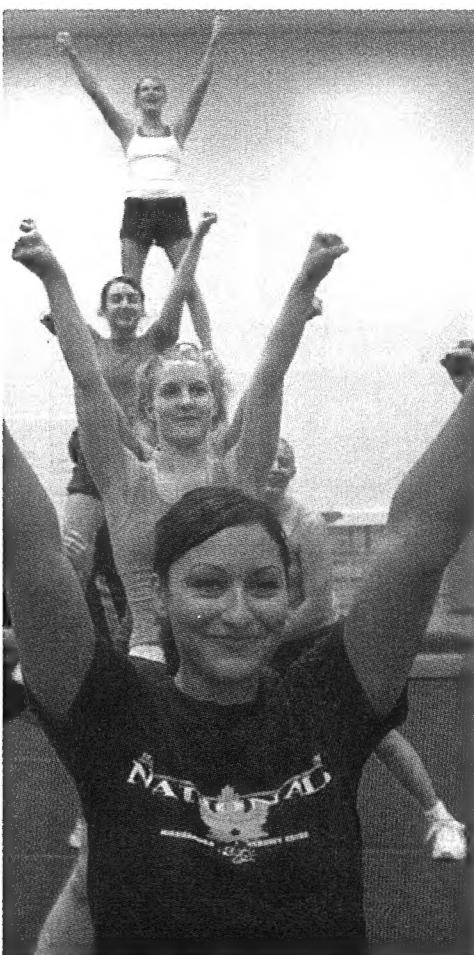
their young audiences. They club also performs during special university events, like the Week of Welcome or the Chancellor's Golf Tournament.

For the time being they are splitting time between the Golden Bears football games as well as Golden Bear and Pandas basketballs games.

A teacher and a mother of two who has been involved in cheerleading since high school, Fissel says she still enjoys the reaction the club gets when it puts its best foot forward.

"People have a different idea of what cheerleading is. They don't think of it as the cool stunts and gymnastics we do," she said.

"And it has been really gaining respect from some top people U of A coaches and even coaches from other teams have come up to and said this is a wonderful addition." ■



Members of the U of A Ambassador Cheer Athletic Club go to great heights to cheer on university teams. They work out three times a week, attend two practices, cheer at games and take on fundraising duties.

folio back page

photos: Chul-Ahn Jeong